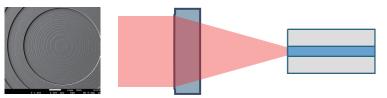
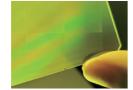
FOCUSLIGHT

Diffractive Optical Elements (DOE)



Specifications	Value
Material	Fused silica, silicon
Composition	Binary and up to 16 levels
Wavelength Range	190 nm – 5 µm
Minimum Feature Size	500 nm – 1 μm
Overlay Accuracy	< 70 nm





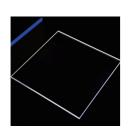


Beam shaping DOE for UV excimer laser

Plano Optics



Micro Prisms		
Specifications	Value	
Lens Size	2 – 0.3 mm	
Angular Accuracy	30"	
Flatness	1/10λ @ φ 50 mm	
Roughness	0.2 – 0.6 nm	
Surface Quality	MIL 20/10 / ISO 3x0.1, L0.02	



,	Windows			
	Specifications	Value		
	Size	2 x 2 mm - 1200 x 300 mm		
	Flatness	1/10λ @ φ 150 mm		
	Roughness	0.2 – 0.6 nm		
	Surface Quality	MIL 20/10 / ISO 3x0.1, L0.02		

Precision Coating + Advanced Characterization

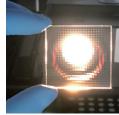
Focuslight offers advanced optical coating services, providing high-quality coatings across a broad wavelength range from deep ultraviolet (DUV) to infrared (IR). With precise design and ISO-compliant production, we ensure exceptional performance and long-term reliability of the coatings used in various industries, such as optical communications, medical and health, and automotive-grade applications.

Wide Coating Range from UV 248 nm to IR 3000 nm

- Anti-reflection
- High reflection

Splitter

- Bandpass
- Polarizer



on lens arrays



High reflection coating on micro prisms

Advanced Coating Characterization

- Nano coating defect diagnosis
- Coating layer stress analysis
- Coating layer absorption and LIDT analysis

LIDT Measurement Capability and Service *

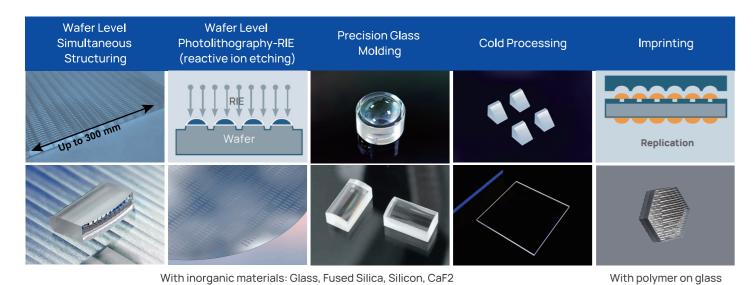
	• •
Specifications	Value
Wavelength	355 / 532 /1064 nm
_aser Mode	Pulsed
requency	10 Hz
Pulse Width	10 ns
Pulse Number	200

^{*} Test report available within 3 days after sample reception

FOCUSLIGHT COMPANY INTRODUCTION LASER OPTICS COMPONENTS Founded in 2007 and headquartered in Xi'an, China, Focuslight Technologies Inc. is a fast-growing public company (Shanghai: 688167) that specializes in developing and manufacturing high-power diode laser components and materials, laser optics, as well as photonics module and system solutions focusing on optical communication, automotive, pan-semiconductor, and medical and health applications. Focusiqht has expanded its global footprint through strategic acquisitions including LIMO GmbH in 2017 and SUSS MicroOptics SA in 2024 (now as Focuslight 30 Years of Beam Shaping Excellence Switzerland SA). With the acquisition of assets from ams OSRAM in 2024, Focuslight extends its business to be a global photonics foundry by providing global photonics industry process development and manufacturing service under the brand of Heptagon. Learn more at www.focuslight.com and www.hptg.com. Focuslight Technologies Inc. Email: sales@focuslight.com

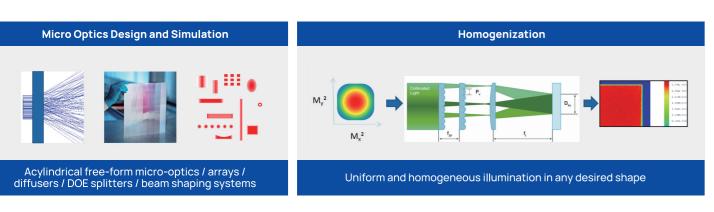
Focuslight -- One-stop-shop provider of micro-optics best matching your needs

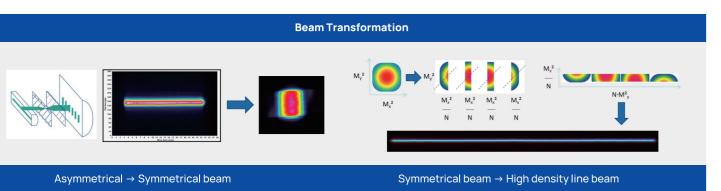
With over 30 years of expertise in optical design, simulation, and volume production, Focuslight employs advanced, innovative technologies to deliver diverse beam-shaping solutions. Our high-precision micro-optics, manufactured with five major process technologies, enable a wide range of applications with exceptional performance and quality, making us your reliable, long-term partner for optical components and modules.



High LIDT Optical Coating: Anti-reflection, high-reflection, beam splitter, band filter, and various customization (UV, VIS, IR)

Beam Shaping - The Right Photon at the Right Place and Time!



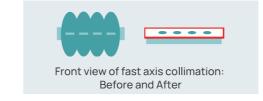


Single Lenses



Fast Axis Collimators (FAC)

Specifications	Value
Material	High quality optical glass, fused silica
Effective Focal Length	0.11 - 7.7 mm, customizable
Back Focal Length	0.034 - 5.000 mm, customizable
AR Coating	770 – 1070 nm, 790 – 990 nm, 400 – 480 nm





Fiber Couplers and Collimators

Specifications	Value
Material	Fused silica, silicon
Beam Diameter / Output	50 to 400 µm, or customizable
Fiber / Waveguide types	SMF, MMF, LD, PIC, Si-Photonics
Lens Type	Circular, cylindrical
Lens Profile	Spherical, aspherical, DOEs
AR Coating	VIS, NIR

Focusing Lenses

1 ocusing Ecriscs	
Specifications	Value
Material	Moldable materials (e.g. D-ZK3 or D-LAK6)
Outer Diameter Range	1.5 – 45 ± 0.003 mm
Transmission Decenter	30" - 90"
PV	0.2 - 1.0 μm
Coating	VIS, NIR

Linear Lens Arrays



Fiber Coupler and Collimator Arrays

	,
Specifications	Value
Material	Fused silica, silicon
Lens Dimension	Diameter 0.02 - 1.5 mm, center thickness 0.25 - 3.0 mm, aspherical lens units
Pitch	127 / 250 / 500 / 750 μm and customized, 1D / 2D arrays
Coating	Low loss ARC and metallization



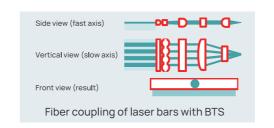
Slow Axis Collimator Arrays

Specifications	Value
Material	Optical glass, fused silica
Pitch	0.4 / 0.5 / 1.0 mm
Structure	Single sided (SAC arrays) or double sided (Telescope arrays)
AR Coating	VIS, NIR



Beam Transformation System (BTS)

Specifications	Value	
Material	Optical glass, fused silica	
Effective Focal Length	0.11 - 7.7 mm, customizable	
Back Focal Length	0.034 / 0.052 / 0.090 mm	
Pitch	0.2 / 0.225 / 0.4 / 0.5 mm, customizable	
AR Coating	420 - 465, 790 - 990, 600 - 700, 1000 - 1600 nm	



Collimation of laser bars

Fiber array collimation in

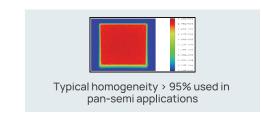
optical communications

Area Lens Arrays



Homogenizers

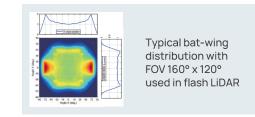
Specifications	Value
Material	High refractive index optical glass, fused silica, silicon, CaF2, polymer on glass (PoG)
Lens Type	Cylindrical, circular, hexagonal, square
Lens Arrangement	Linear, quad, hexagonal and customizable
Coating	AR, HR, chrome, black chrome





Diffusers

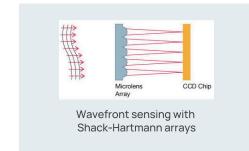
Specifications	Value
Material	Optical glass
FOV	Up to 160° in one direction
Working Temperature	-40 °C - 150 °C
Intensity Distribution	Top-hat, cos-2, bat-wing (> 90% homogeneity)
Suitable Laser Source	EEL, VCSEL, DPSSL, Fiber laser etc.





Shack-Hartmann Arrays

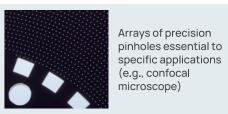
Specifications	Value
Material	Fused silica, silicon
Lens Diameter	30 µm to 2.0 mm
F-number (F#)	Typ. F/5 to F/100
Effective Focal Length	Typ. 1 to 100 mm
Wavefront Error (Surface profile deviation)	10 to 50 nm (Typical)
Array Size	Customizable
AR Coating	UV, VIS, NIR





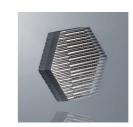
Pinhole Arrays

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Specifications	Value	
Disc Diameter	≤ 160 mm	
Material	Fused silica	
Pinhole/Lens Pattern	Custom	
AR Coating	UV, VIS, NIR	
Cr Coating	Customizable per request	





Micro Lens Arrays



more zenezuraye		
Specifications	Value	
Material	Polymer on glass (PoG)	
Lens Type	Convex, concave, arbitrary (freeform), with or without apertures	
Lens Pitch / Diameter	10 µm to 2 mm	
Lens SAG	2 to 450 µm	
Alignment Accuracy	≤ 5 µm lens to lens, lens to aperture (same side / opposite sides)	

