



3D INTRAORAL SCANNING

3D intraoral scanning is an advanced technology that is widely used in dentistry. By projecting light and capturing surface data of teeth and oral tissues with high-resolution cameras, it enables accurate acquisition of 3D models of the oral cavity and colour-true images that replace traditional dental impressions.



LASER SURGERY

Laser medical treatment is a new application enabled by the selective photothermolysis theory of biological tissues. Based on different absorption efficiencies of biological tissues for different wavelengths of laser, it is gradually applied in general surgery, dermatology, ENT, stomatology, gynecology, cardiology, neurosurgery and tumor treatment.

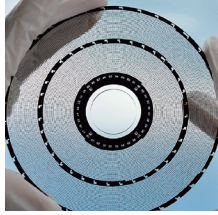


FLUORESCENCE ENDOSCOPY

Laser Fluorescein Angiography (LFA) technology, as an emerging endoscopic technology, is used for precise surgical treatment. Much like a doctor's eyes, fluorescence endoscopy plays a pivotal role by establishing channels and providing illumination for accurate diagnosis and treatment during endoscopic procedures.

3D Intraoral Scanning

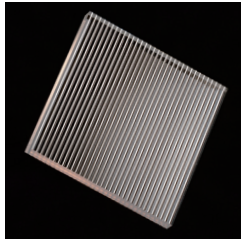
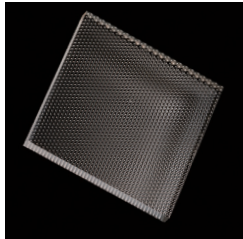
Pinhole Arrays for Confocal Imaging



- Combination of microlenses with high-precision pinholes over large areas allows to realize confocal filters with high light throughput.
- Enabler for high contrast, sharply focused images and 3D reconstructions of biological and other miniature difficult-to-image structures.

Specifications	
Disc diameter	≤ 160 mm
Material	Fused silica
Thickness	0.4 to 2.25 mm
Pinhole/lens pattern	Aperture size > 20µm, Custom
OD of the opaque layer	OD3
AR coating	UV, VIS, NIR – front side, back side, to air, to glue
Cr coating	Cr, black Cr, Alu, AR, Custom

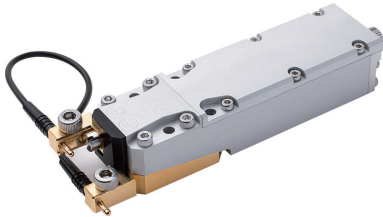
Microlens Arrays for Triangulation Laser Scanning



Specifications	
Target Beam	Rectangular, line, spot array, line array
Lens Profile	Plano-convex, bi-convex, aspheres, spheres, cylindrical, (a)cylindrical
Material	Fused silica (various grades) and silicon
AR coating	UV, VIS, NIR – front side, back side, to air, to glue
Pattern	Custom
Thickness	0.4 to 2.25 mm
Product size	Custom

Laser Surgery

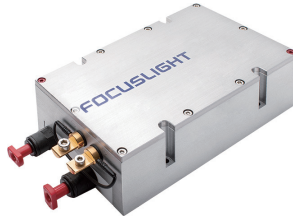
Application: Ophthalmology



Single-Bar Series
Compact Design / High Brightness

Specification: 808 nm, 32 W, 400 µm
Additional Function (optional): Pilot Beam, PD, Temperature Sensor

Application: Urology



Multi-Bar Series
High Power / QCW Output

Specification: 100-400 W (QCW), 200/400 µm
Addition Function: Pilot Beam, PD, Temperature Sensor

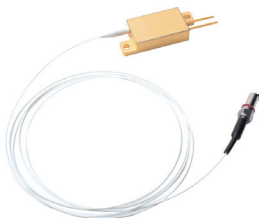
Application: Dentistry



Single-Emitter (FCMSE58)
Compact Design / High Brightness / Multi-Wavelength

Specification: 25-35 W, 200 µm
Addition Function: Pilot Beam, PD, Temperature Sensor, Fiber Detection Sensor

Fluorescence Endoscopy



Application: LFA

Single-Emitter (FCMSE55) Compact Design / High Brightness

Specification: 15-25 W, 105/200 µm

COMPANY INTRODUCTION

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. Focuslight has expanded its global footprint through strategic acquisitions including LIMO GmbH in 2017 and SUSS MicroOptics SA in 2024 (now as Focuslight 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.



www.focuslight.com