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Focuslight Overview

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- Founded in 2007 by Dr. Victor X. Liu, headquartered in Xi'an, China.
- A fast-growing company that develops and manufactures **high-power diode laser components and materials** (photon generation) and **laser optics** (photon control) used in various industries and applications.
- Business scope is being extended by developing and manufacturing **photonic application modules, assemblies, and sub-systems** (photonics application solutions) with a focus on automotive, pan-semiconductor, and medical & health application solutions.
- Public listed company in the Shanghai Stock Exchange (Ticker Symbol: 688167).

Milestones

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Products

2008 — CS series released – Our very first laser

2010 — Full-scale application of indium-free bonding

2012 — GS series released – Ultra-light conduction-cooled diode laser: QCW 3kW = 2g

2014 — Vshiny, the world's most shipped hard-solder packaged microchannel laser hair removal engine, launched

2018 — UV-L750 Ultraviolet Line Laser System won Prism Award

2019 — Automotive LiDAR transmitter project awarded from international Tier 1

2020 — Production of micro-optics on world's largest glass wafer (300 x 300 mm²)

2021 — Fast Axis Collimator (FAC) monthly shipment exceeded 1M pcs.

2023 — Laser system for wafer annealing in semiconductor manufacturing processes launched

2024 — Line Beam LiDAR Transmitter Module awarded nomination from European Tier 1

Technology and Development

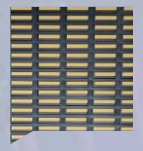
2007 — Founding of Focuslight

2009 — ISO9001 certified

2012 — Entered professional medical and health market

2013 — World's first monograph on packaging of HPDL published

2017 — Technology breakthrough of gold-tin film preparation



2018 — Acquisition of LIMO Started providing photon control and photonics application solutions

2019 — Establishment of Automotive BU Entered LiDAR market

2019 — Dongguan delivery and high-volume manufacturing center officially in operation

2020 — Xi'an HQ IATF16949 certified

2020 — Exclusive cooperation with world-famous device manufacturer Entered consumer medical and health market

2021 — Breakthrough using solid-state line laser in annealing process of FPDs

2022 — Successful IPO at SSE Star Market

2022 — Brand unified globally

2023 — Invested in new facility in Shaoguan focused on medial and health application solutions

2023 — Invested in new facility in Hefei focused on pan-semiconductor application solutions

2024 — Dongguan Base IATF16949 certified

2024 — Acquisition of SUSS MicroOptics

Focuslight Corporate and Subsidiaries

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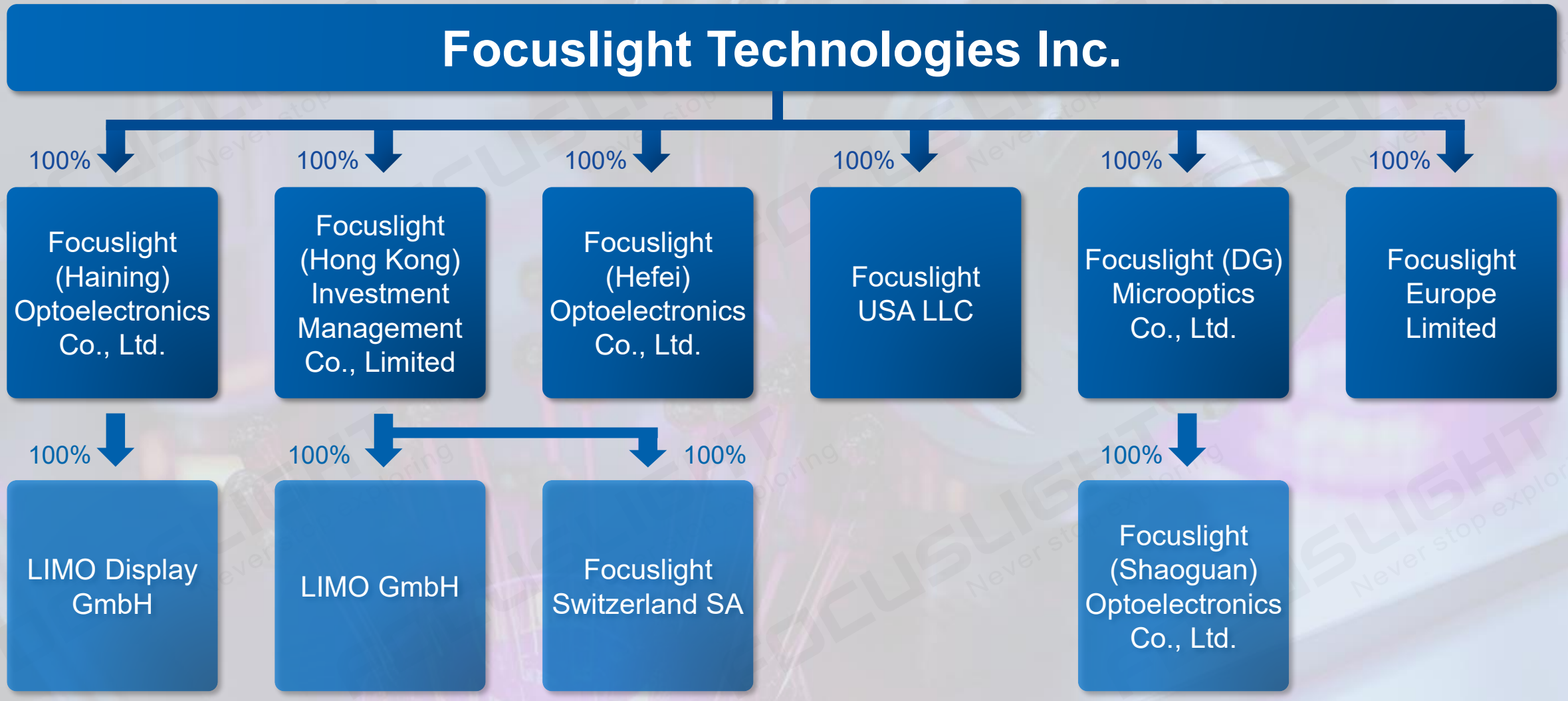

Key Facts & Figures

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Employees

>850

Yearly Revenue Proportion Invested into R&D

~16%

Patents Valid Worldwide

>430

Facility Building Worldwide

>43,000m²

Clean Room Worldwide

>11,000m²

ISO 9001
ISO 14001
ISO 45001
IATF 16949
Certified

Corporate Management Team

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Dr. Xingsheng Liu (Victor)

Chairman, CEO

- Research and management experience in America (Virginia Tech, Corning, Coherent, nLight)
- 100+ publications, 300+ patents, 30+ invited papers internationally
- Committee Member of SPIE and IEEE, served or serving as chair or committee member of international conferences

CORNING COHERENT nLIGHT

Dr. Chung-En Zah

CTO

- 30+ years of research experience in America (Corning, Bellcore)
- 300+ publications, 50+ patents in optoelectronics and telecommunication
- IEEE Fellow, OSA Fellow, 2x R&D 100 award winner

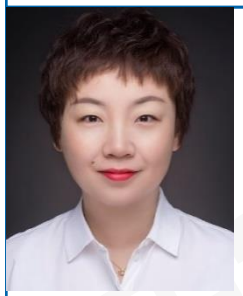
THORLABS CORNING Bellcore Bell Communications Research

Mr. Guowei Zhu (Gavin)

Corporate VP of Quality,
President of Automotive BU,
Director of Corporate R&D

- Over 20 years experience in international automotive companies
- Rich plant P&L and operations management experience
- Familiar with IATF quality management system, KPI management, team building and plant operations management by World Class Manufacturing (WCM) & Lean manufacturing

MAGNETI MARELLI BorgWarner GST SETON AUTOLEATHER

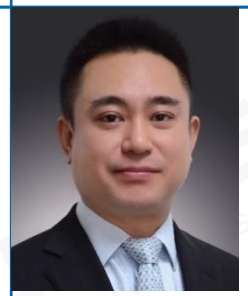


Ms. Yiping Ye (Alison)

Board Director, CFO

- Over 15 years management experience and multi-field business practices, familiar with LTC, IPD and intercultural cooperation
- In-depth understanding and rich operational experience in market development, project operation and business management

HUAWEI Hanergy 汉能



Mr. Ye Tian

Board Director,
Corporate VP of Global Sales,
China Sales Director

- Over 15 years' experience in market development, product marketing and sales
- Received the certificate of CEIBS' Leadership Acceleration Program

PHILIPS Lighting

Dr. Reinhard Voelkel

Chief Strategy Officer

- MSc in Physics and PhD in Natural Sciences, both at the University of Erlangen-Nürnberg
- +35 years of professional experience in the field of micro-optics, with expertise in strategic leadership, business development, and innovation

SÜSS MicroOptics Karl Süss FAU Friedrich-Alexander Universität Erlangen-Nürnberg Hugle unine Université de Neuchâtel Schweizerische Eidgenossenschaft Staatssekretariat für Bildung, Forschung und Innovation SBFI Sand Hill Angels

Corporate Management Team

Ms. Xuefeng Zhang (Jennifer)

Board Secretary, Marketing Director

- 13 years photonics industry international business experience
- In-depth understanding and rich experience in sales, marketing and business development.

Mr. Jinchao Qu

President of Diode Laser BU, President of Medical & Health BU

- Extensive years of product marketing and sales management experience
- Outstanding track record in previous roles as Asia Sales Director and Head of the Application Systems Special Task Force

Mr. Dirk Walter Bogs

President of Laser Optics BU

- Over 25 years' experience in ultra-precision tooling, optic manufacturing, engineering & project management
- More than 20 years' experience in operational management
- Very deep knowledge of technology development and optimization
- Experienced and familiar in international cooperation

Mr. Yong Tian (York)

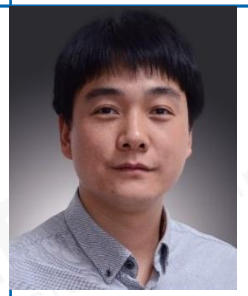
VP of Laser Optics BU

- 20+ years of operation & R&D management
- Very deep knowledge with organic optical materials and optical coating technology, published SCI articles and owns patented technologies
- Experienced in Lean Manufacturing & Industry 4.0

Mr. Yong Li (Leon)

VP of Automotive BU

- Outstanding leadership in previous roles: Overseas Sales Manager, Product Line Manager, and Head of the Automotive LiDAR Strategic Project
- Led the team to the successful automotive-grade SOP of the world's first all-solid-state LiDAR transmitter module
- Experienced in international cooperation and strategic planning



Mr. Ye Dai (Robert)

President of Pan-Semiconductor Solutions BU

- Excellent track record in worldwide sales & product line management leadership roles
- 20+ patents granted

Products and Businesses

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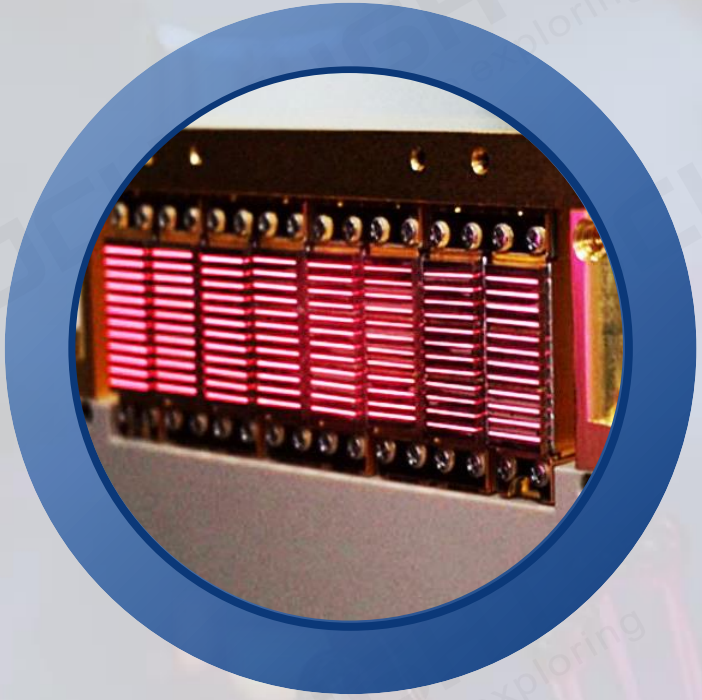

Photon Generation + **Photon Control** + **Photonics Application Solutions**

Markets

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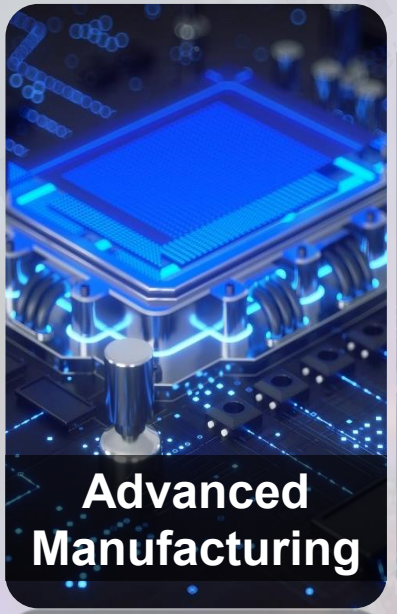

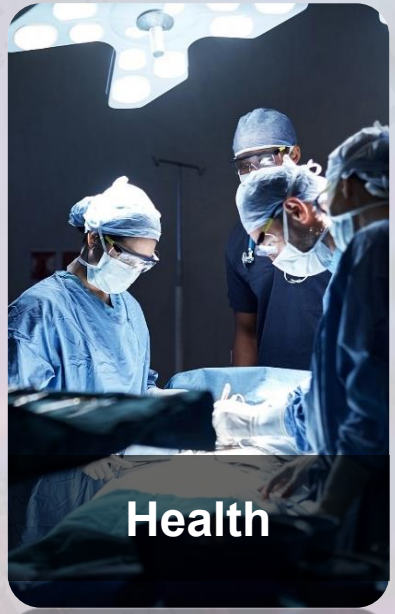

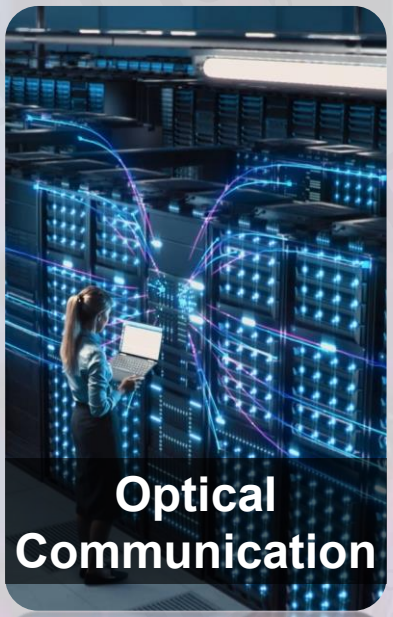

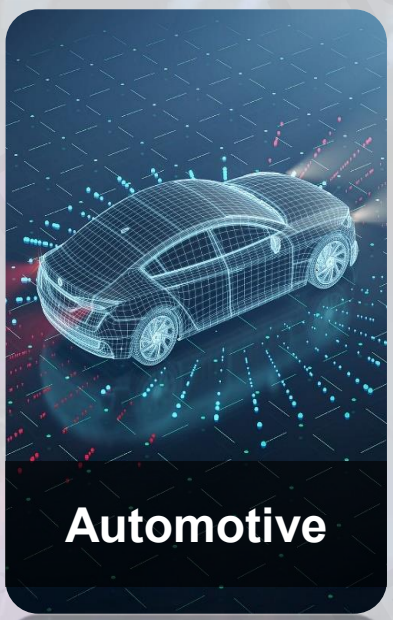

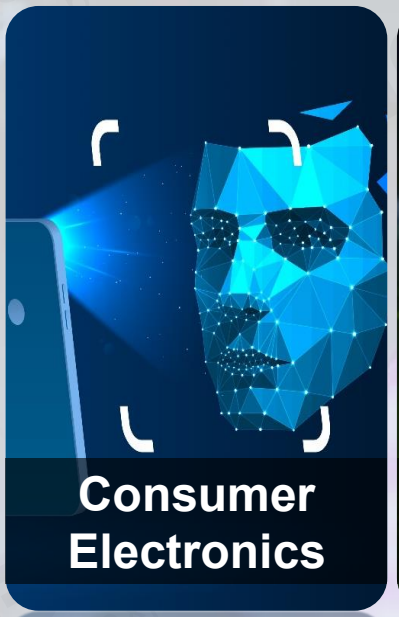

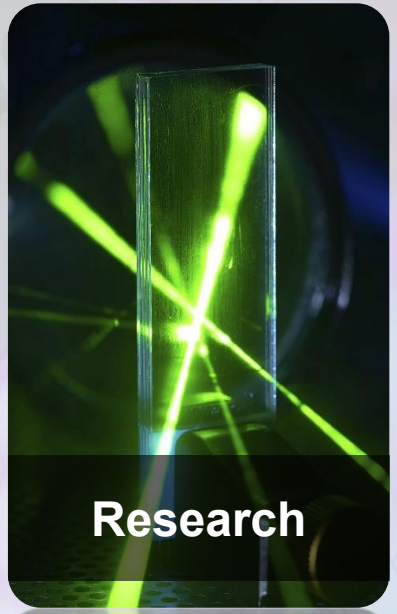

Be the global trusted photonics solution provider

through innovation, manufacturing excellence and fast response

Value Proposition

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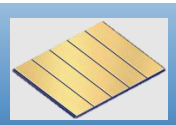
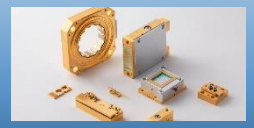
Full Value Chain

Raw Materials	 Chips (Strategic collaboration with Suppliers)	 Packaging Materials	  Optics Substrate
Components & Devices	 Light Sources	  Optical Components	 Fiber coupled Modules
Modules / Subsystems & Application Systems	 Laser Subsystems	 Optical Subsystems	 Integrated Modules
Solution, Support & Service	Application Centers	Technical Support	Field Service Centers

Total Solution & Service

Industry Leader
Strong Financial Backing
Healthy Stable Company, Invest in the Future

Value Proposition

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- ***Quality First*** philosophy
- Strong ***IP position***
- Customer ***commitment*** and willing to ***invest***
- Advanced ***technical strengths*** and ***"know-how"***
- Extensive ***engineering*** capability and high-volume ***manufacturing***
- ***Low-cost production*** ensured by high yield, low RMA & high productivity
- Comprehensive ***quality assurance system including IATF 16949 Automotive QMS standards***
- ***Full range of product portfolio*** from components to modules or subassembly
- Application support and ***total solutions***
- Versatile ***customization service***

Vision

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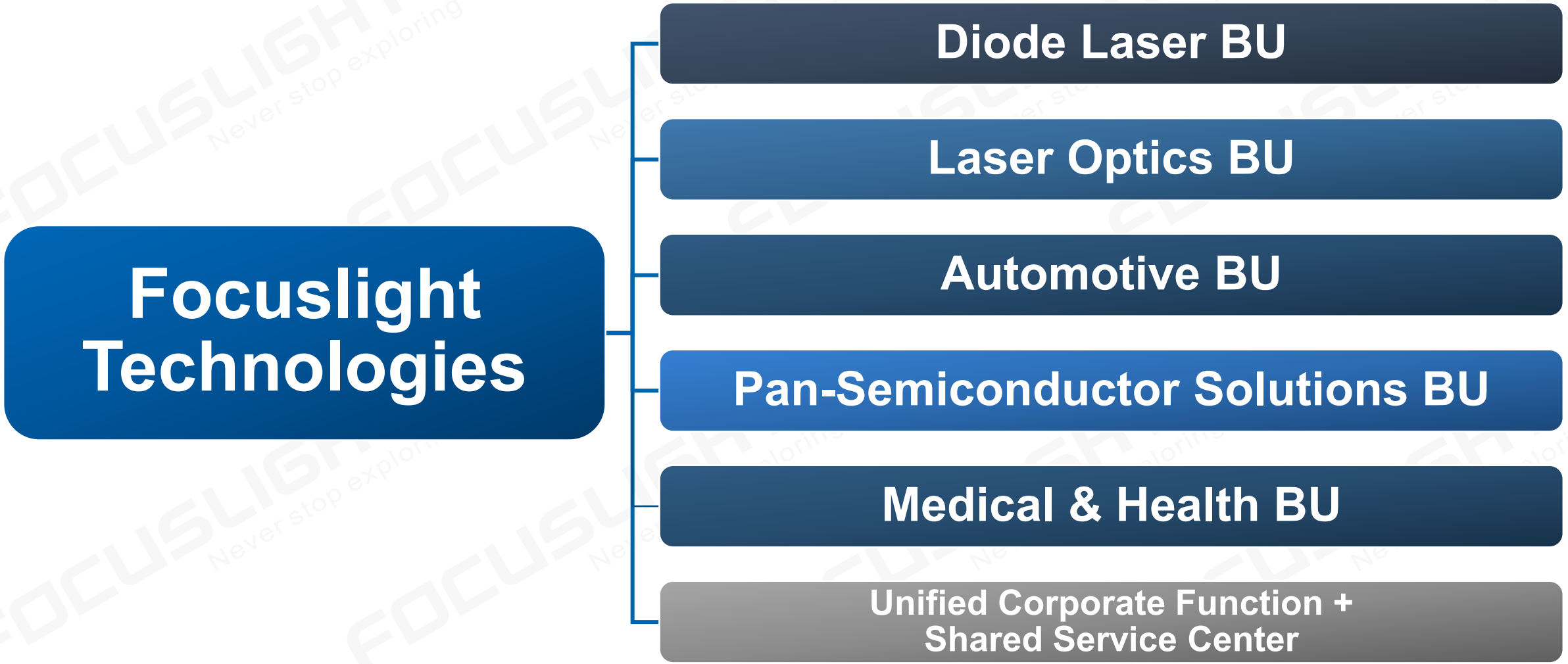
To unlock the potential of photonics to enhance and enrich people's life

Company Organization



** BU: Business Unit*

Products – Diode Laser Components and Materials

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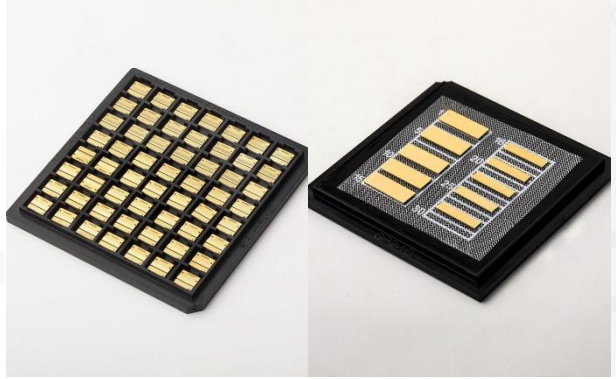
Advanced Materials



- AuSn Pre-Deposited AlN Ceramic Substrates
- AuSn Pre-Deposited CuW Substrates
- Thin Film Metallization Service

Active Devices

- Single Emitter Components
- Single Bar Components
- Micro-Channel Cooled Stacks
- Conduction Cooled Stacks
- Pumped Modules

Fiber Coupled Modules & Passive Components

- Emitter-Based FCM
- Bar-Based FCM
- Patch Cords

Professional Medical Application Components

- Laser Hair Removal Modules
- Medical Lasers

- Focuslight offers our customers a variety of products.
- Focuslight is committed to providing our customers with reliable, high-performance laser products and superior services

Products – Laser Optics Components

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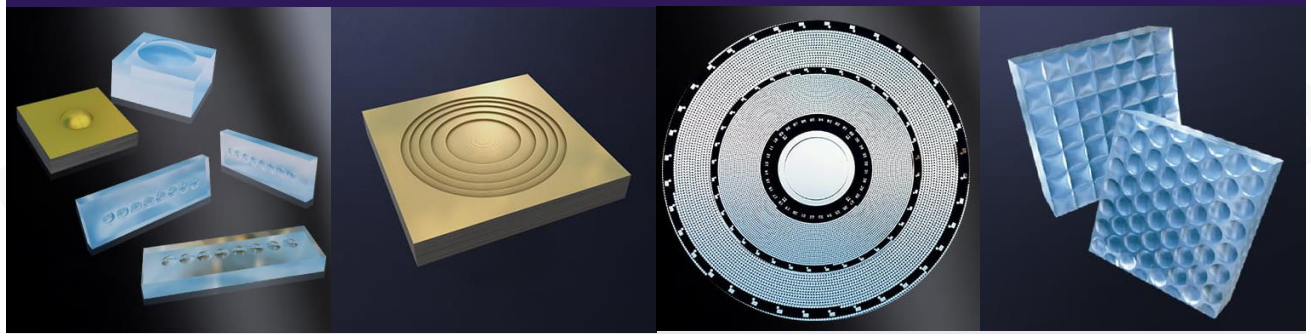
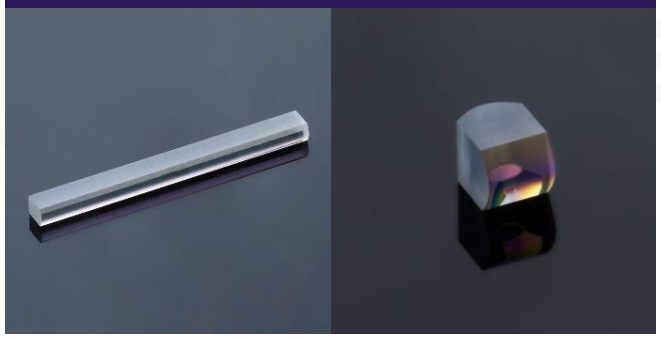
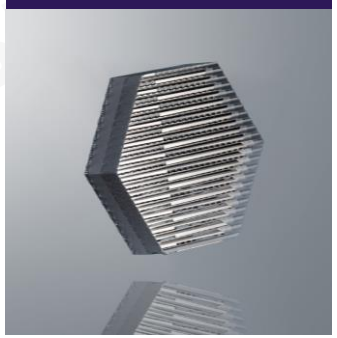
Etched Micro-Optics (EMO)



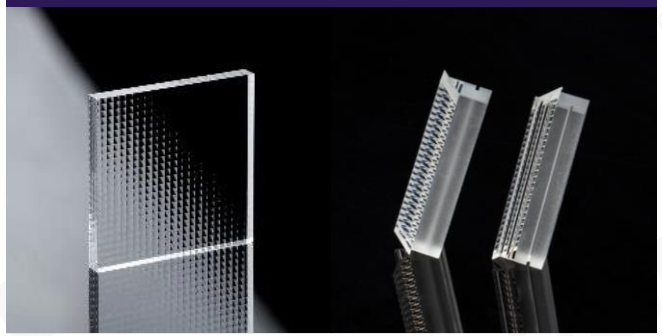
Single (A)cylindrical Lenses (SCL)



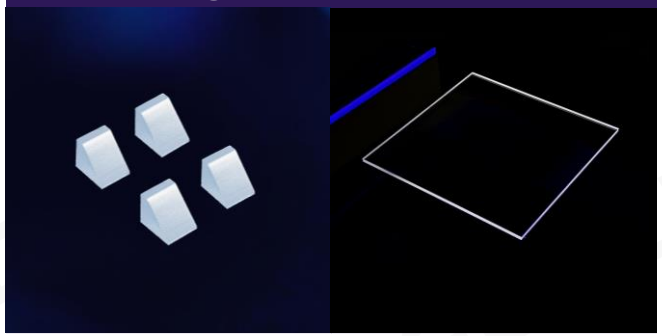
Imprinted Micro-Optics



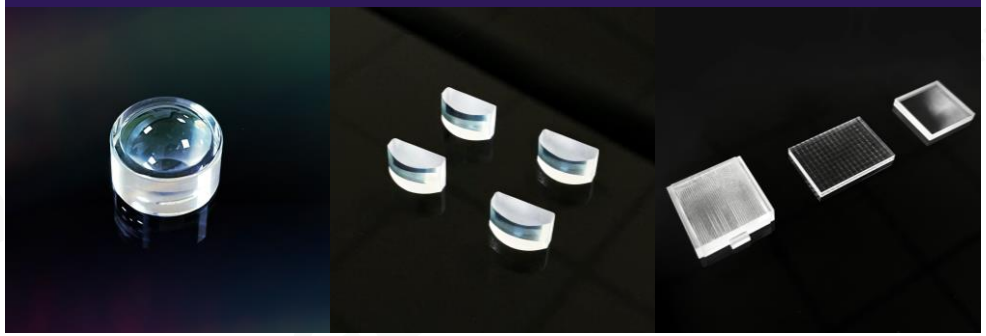
Microlens Arrays (MLA)



High-Damage-Threshold Coating and Optics (HCO)



Precision Molded Optics (PMO)



Products – Automotive Application Solutions

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Flash LiDAR Transmitter Modules

AL01 (Mass Production)

Auto-grade DPSSL Flash Tx

AT02 / AT02 Pro
(Engineering Sample)

Auto-grade VCSEL module for DMS (Driver Monitoring System)

AX02 Pro (Engineering Sample)

VCSEL Flash Tx 700W

Line Beam Transmitter Modules

LE02 Pro
(Engineering Sample)

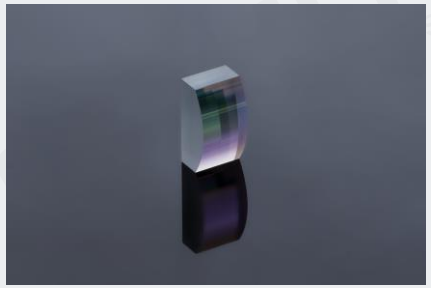
905nm 700W EEL Line Beam Tx

LX02 (Engineering Sample)

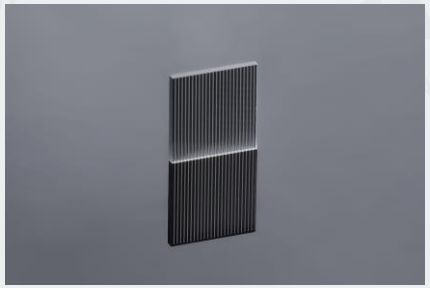
VCSEL Line Tx 1000W

Optical Components and Assemblies for Automotive

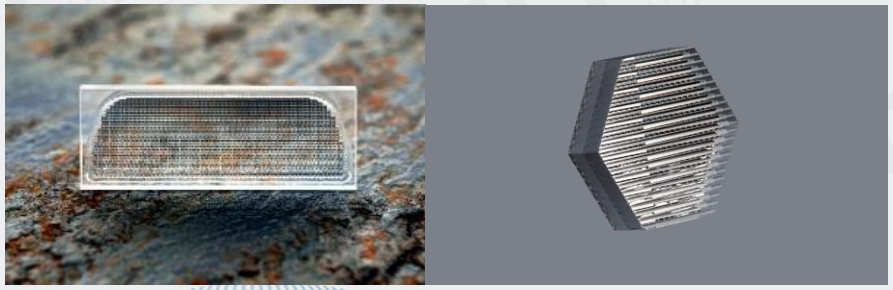
EEL FAC Collimators



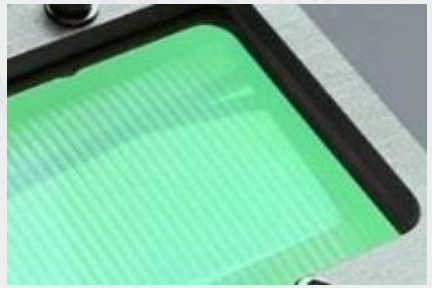
Auto-grade Diffusers and Homogenizers



Optics for Automotive Projection and Lighting



Customized Optical Assemblies



Products – Pan-Semiconductor Application Solutions

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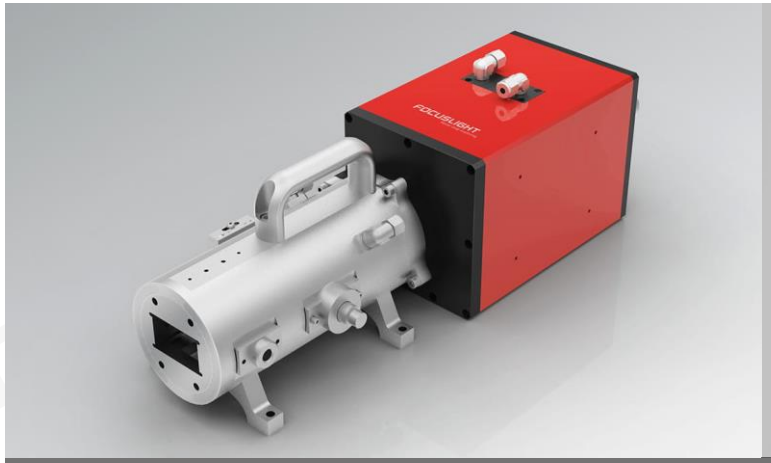

IC Wafer Annealing System

Variable Beam Laser System

Solid-State Laser Lift-Off (LLO) System

IR Line System

Industrial Laser Modules

Solid-State Laser Annealing (SLA) System

Products – Medical and Health Application Solutions

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Professional Medical & Health Modules

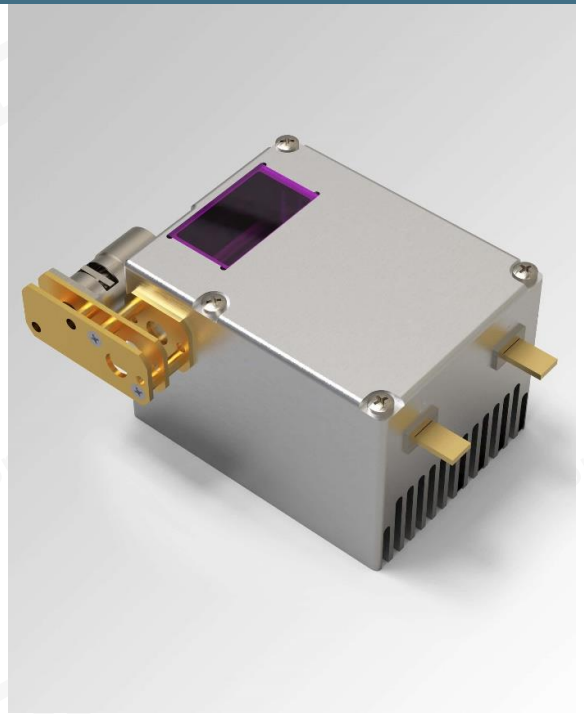
Laser Hair Removal Module

Laser Body Sculpting Module

Consumer Medical and Health Modules

Home-use Skin Rejuvenation Module

Home-use Laser Hair Removal Module



Core Competence – Diode Laser

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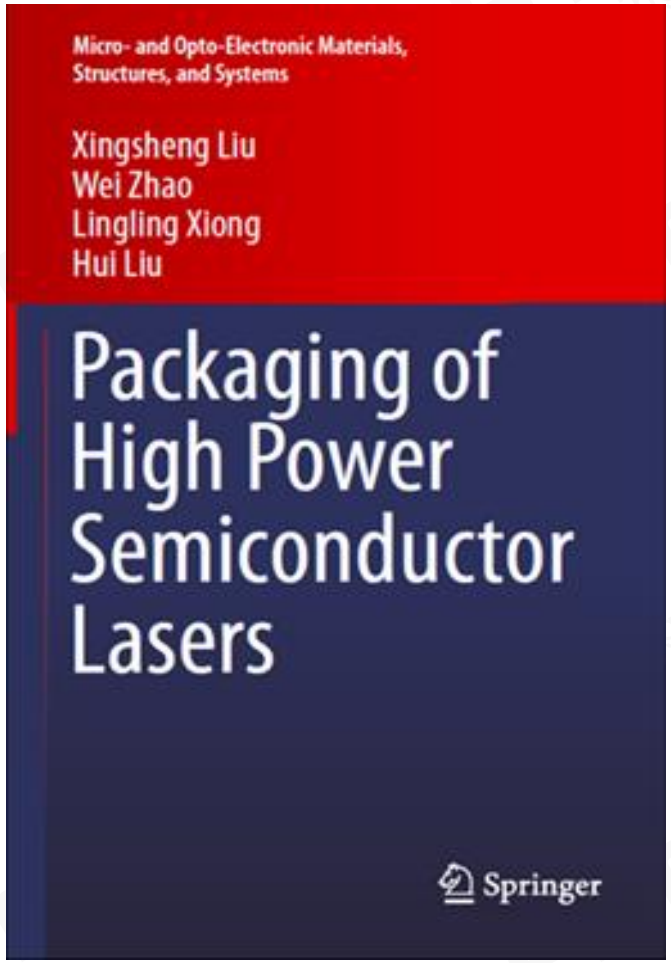
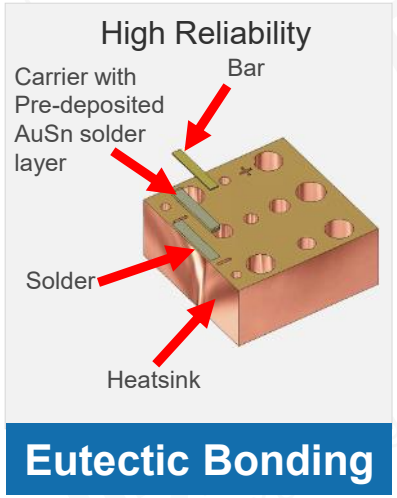
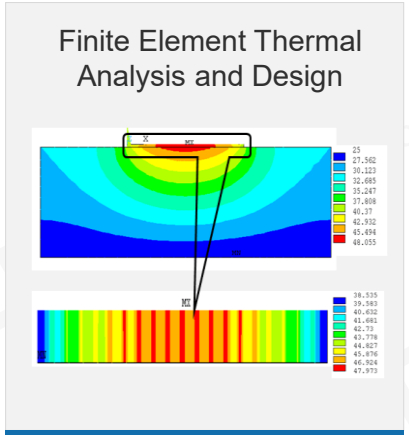
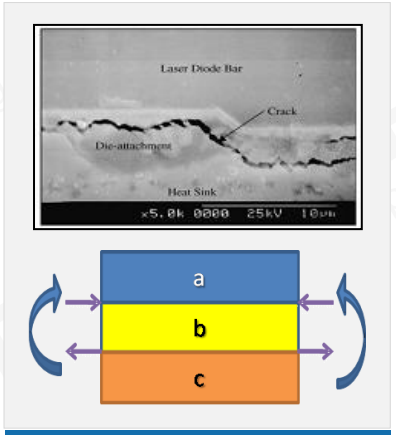




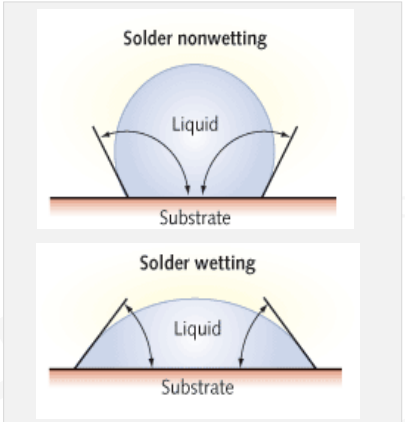
Eutectic Bonding



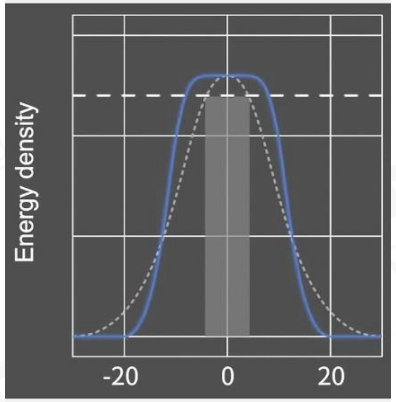
Thermal Management



Thermal Stress Control



Interface Materials and Surface Engineering



Test, Analysis and Diagnosis

Core Competence – Beam Shaping

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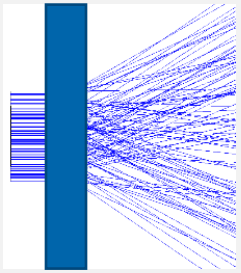
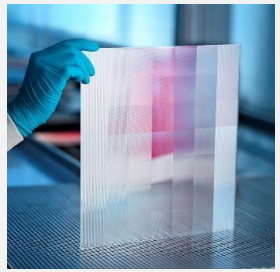
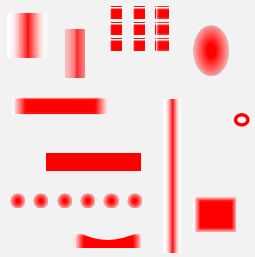
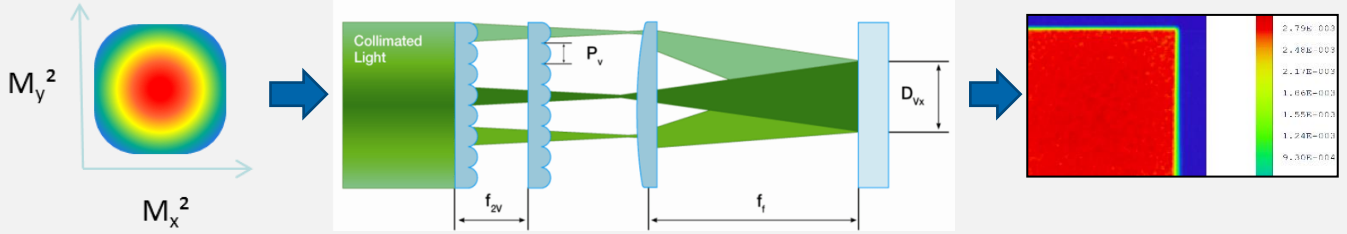
Micro Optics Design and Simulation

Acylindrical free-form micro-optics / arrays / diffusers / DOE splitters / beam shaping systems

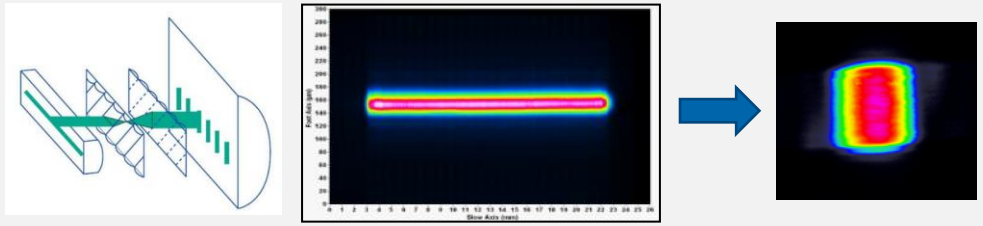
Homogenization

Uniform and homogeneous illumination in any desired shape

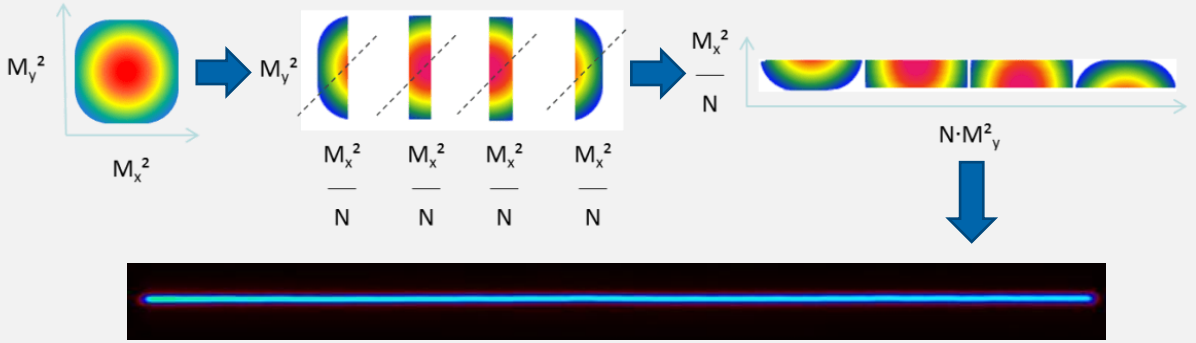


Beam Transformation

Asymmetrical → Symmetrical beam



Symmetrical beam → High density line beam



The right photon at the right place and time!

Core Competence – Optics Manufacturing

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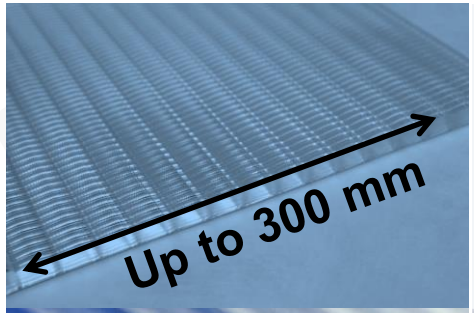
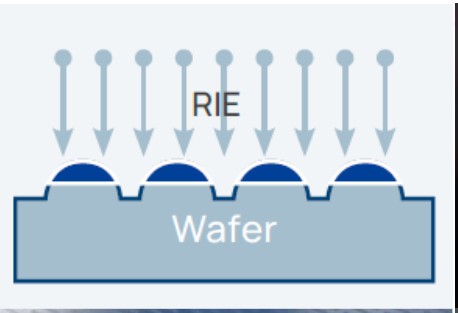
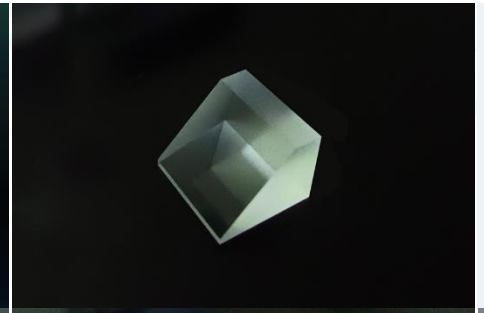
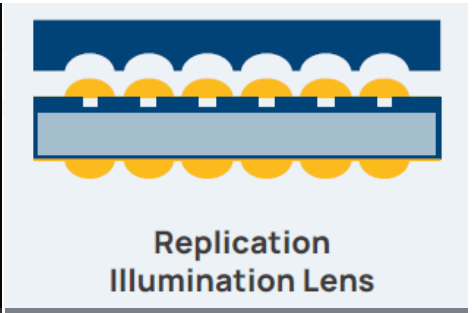
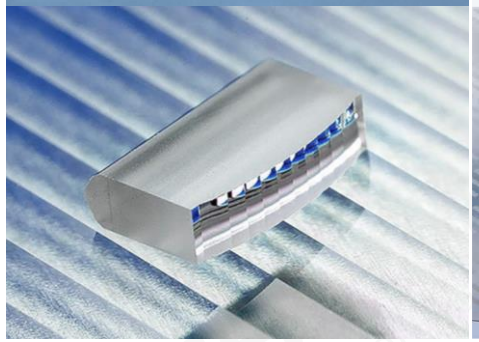
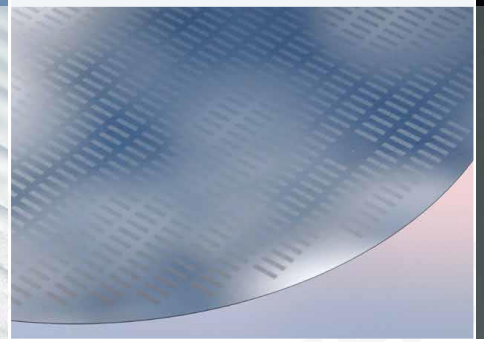
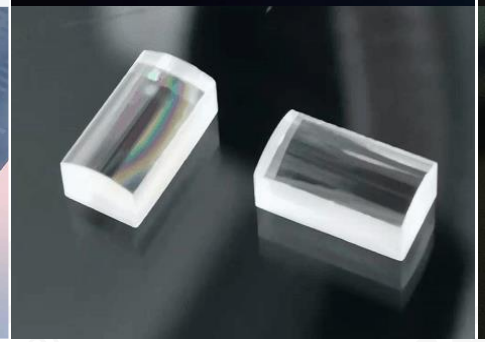
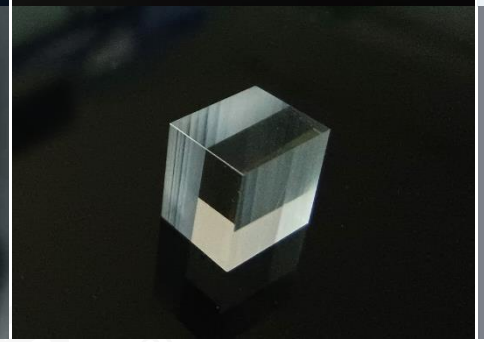
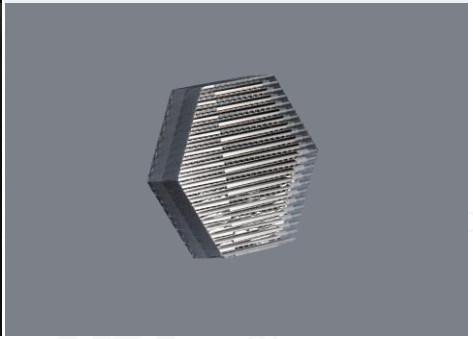
Wafer Level Simultaneous Structuring	Wafer Level Photolithography-RIE (reactive ion etching)	Precision Glass Molding	Cold Processing	Nanoimprint
				
				
With inorganic materials: Glass, Fused Silica, Silicon, CaF_2				With polymer on glass

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

Core Competence – Automotive

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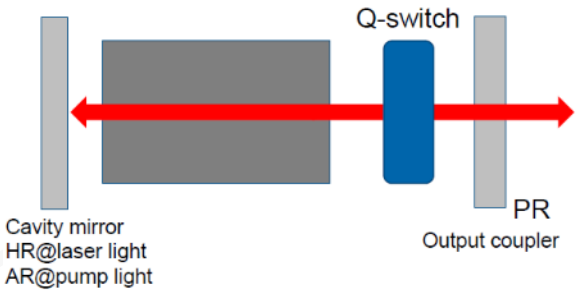
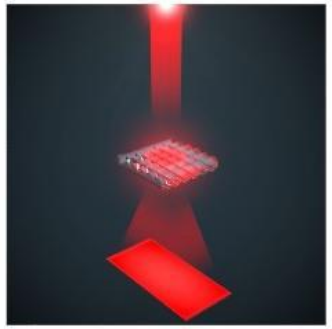
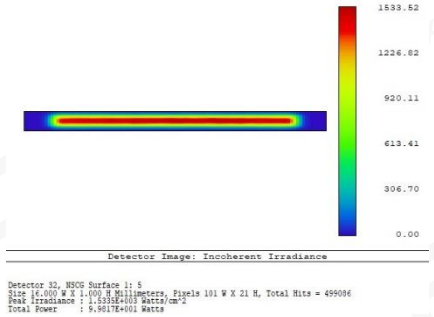


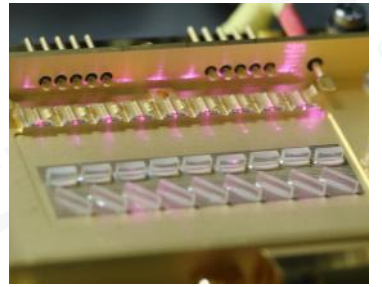
Q-switch DPSS Laser Transmitter Design



Advanced ROE Beam Shaping Optics Design



Design and Simulation



High Power Diode Laser Design and Assembling

Automotive Grade Laser Design and Qualification

Optical Assembly Automation

Laser Testing and Characterization

Laser Assembly Automation

A Unified QM System in the Corporate Ensures Reliable and Premium Products

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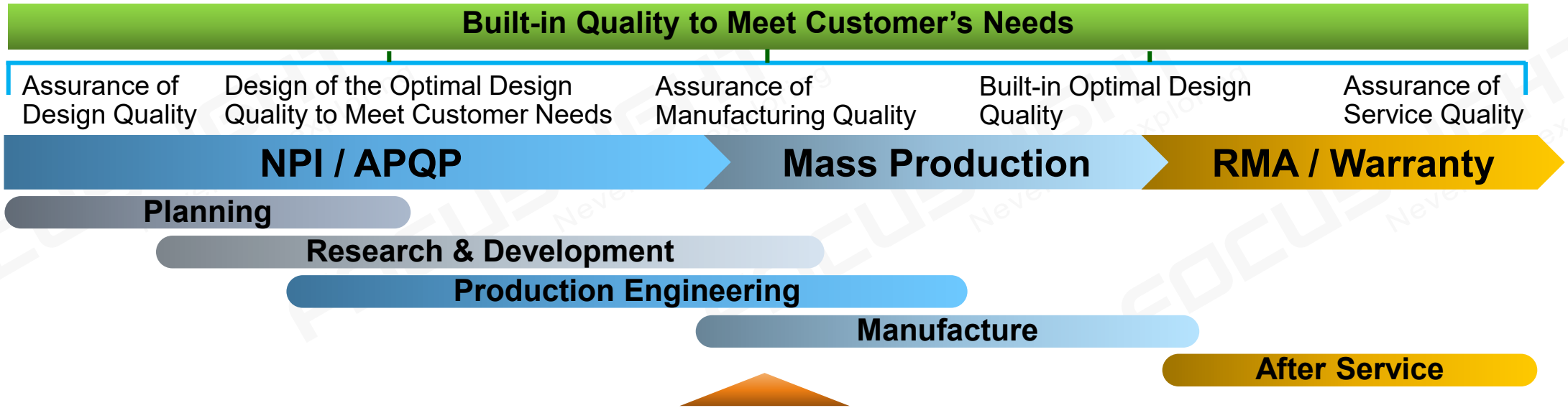
- ISO9001 Certified Quality Management System (QMS)
- ISO14001 Certified Environmental Management System (EMS)
- IATF16949 Certified Automotive Quality Management System
- ISO45001 Certified Occupational Health and Safety Management System
- Failure Mode and Effect Analysis (FMEA)
- Statistical Process Control (SPC)
- Production Traceability Database
- Control Plan (CP)

Quality Assurance System



Promotion of Consistent Quality Assurance Activities

Quality Control System of Design

- QFD
- Critical Characteristic, Special Characteristics
- Tolerance Chain Design
- FMEA, FTA
- Design Validation
- Design Review

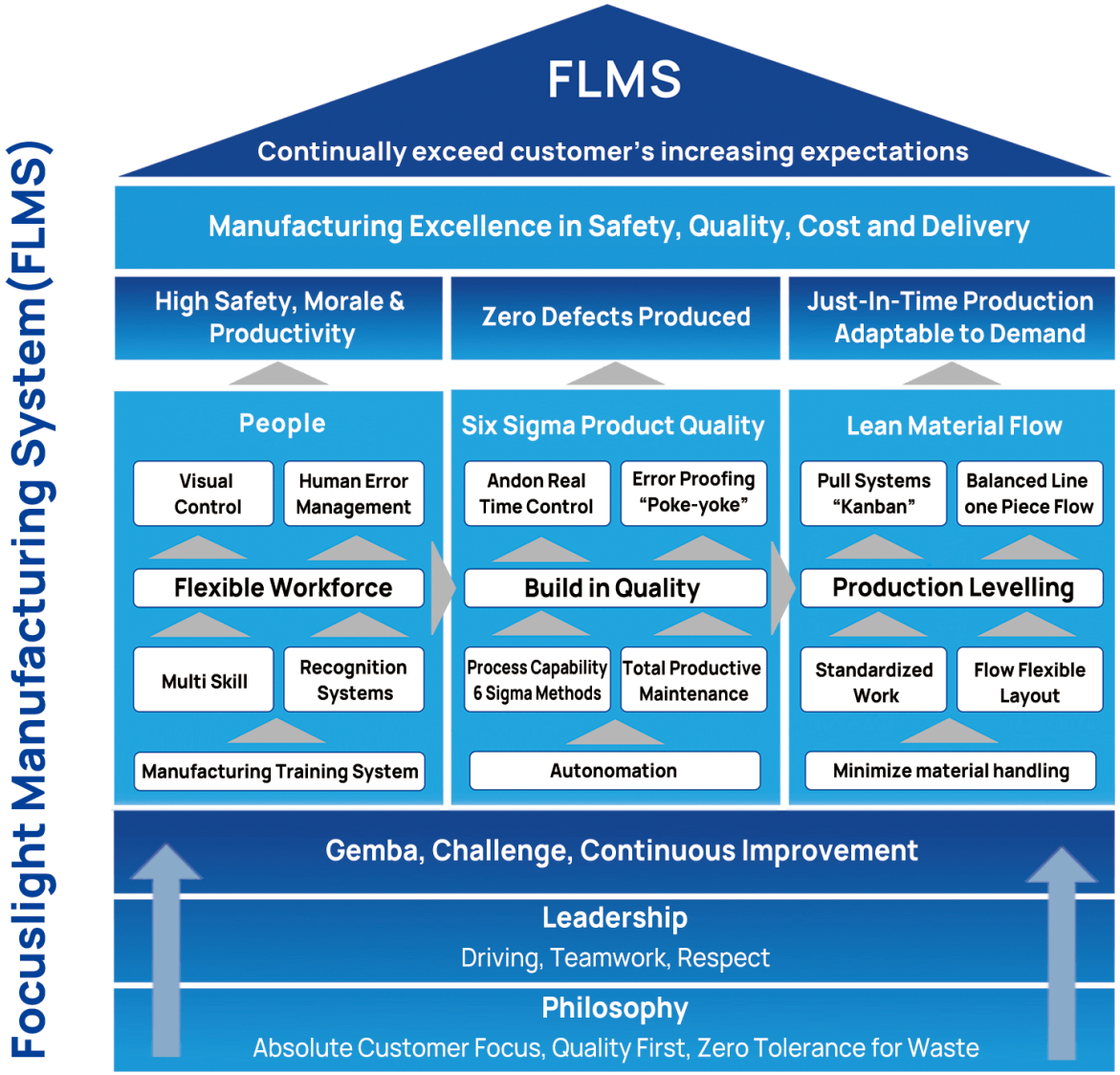
Quality Control System of Manufacture

- Parameter design
- Process FMEA
- Process Capability Study
- Automatic Inspection,
- Poka Yoke / Error Proof
- Measurement System Analysis
- QA Network
- Supplier Quality Management
- Production Validation
- Control Plan
- QC Circles
- Production Part Approval Process

Quality Control Evaluation System

- QC diagnosis
- Quality assurance Meeting
- Quality Auditing Improvement Meeting

Focuslight Manufacturing System (FLMS)



Manufacturing Excellence

- Apply the **lean manufacturing practices** to all production lines, including automotive, diode laser ones and laser optics business
- **Absolute customer focus, zero tolerance of waste, and continuous improvement** philosophy
- **Significantly reduced** cycle time, improved manufacturing efficiency, and lowered RMA yield and manufacturing cost.
- Adopting **automation and advanced production management system**
- **SOP** of the first LiDAR transmitter project with an international automotive tier 1 customer
- IATF 16949 certified and VDA 6.3 audited

Manufacturing Capacity – Advanced Materials

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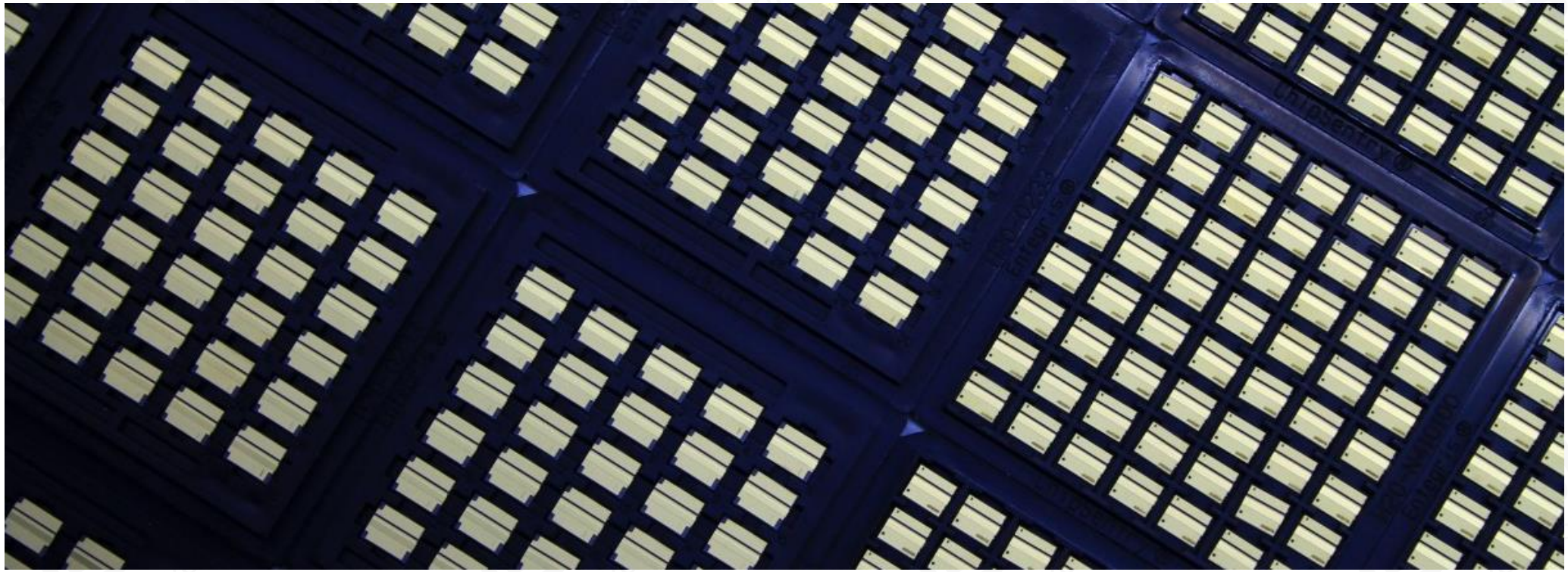
10+ years high-volume manufacturing experiences + self-owned core technologies



Monthly Advanced Materials Manufacturing Capacity > 2M pcs

Manufacturing Capacity – Diode Laser Components

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Yearly Diode Laser Manufacturing Capacity > 500K pcs
Burn-in Capacity 600K pcs/year

Manufacturing Capacity – Laser Optics Components

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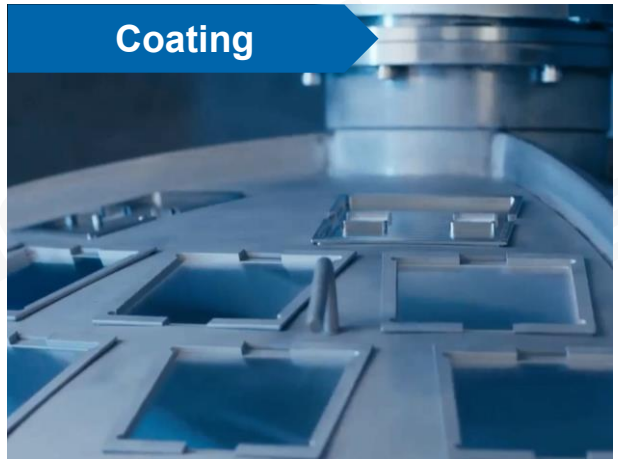
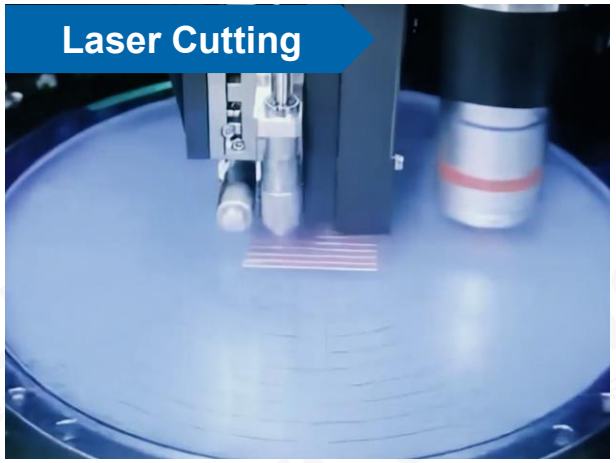
Wafer Production

Quality Mapping

Coating



Laser Cutting



Auto Loading

Auto Packing

Wafer-Level Simultaneous Structuring Processing:
Monthly Manufacturing Capacity > 2K wafers or > 3.5M pcs lenses

Manufacturing Capacity – Laser Optics Components

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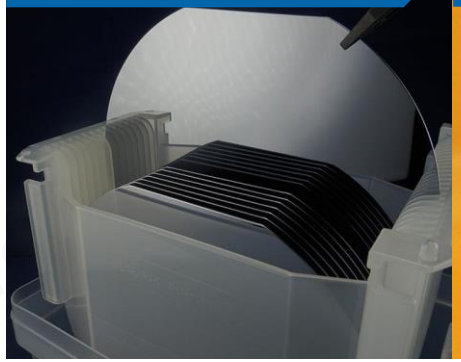
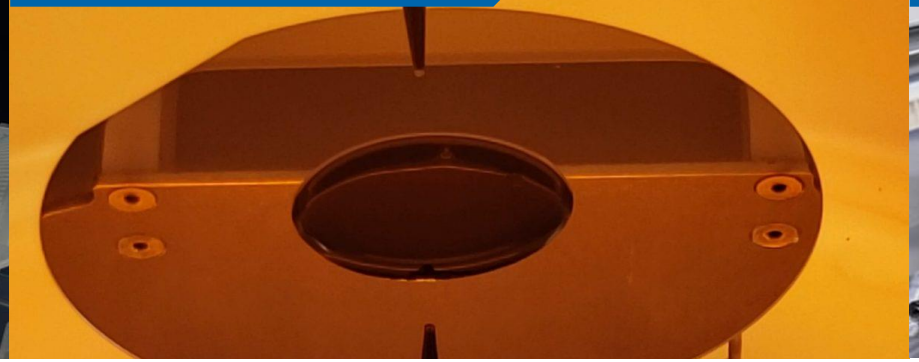
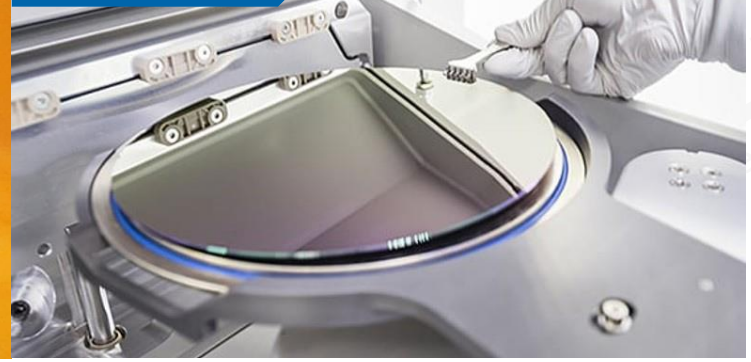
Wafer Raw Materials



Photolithography

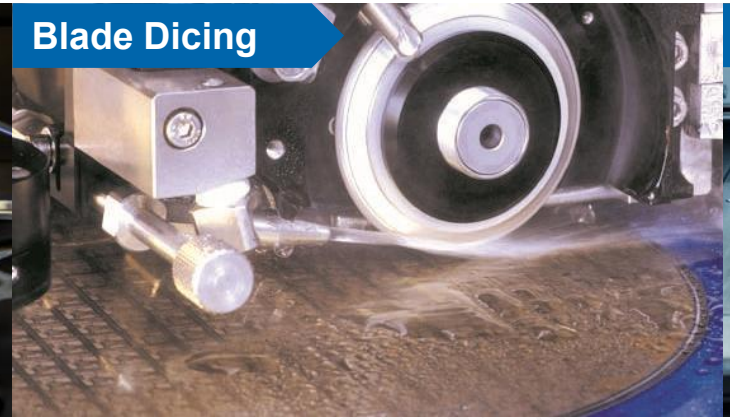


Dry Etching



Thin Film Deposition

Blade Dicing



Pick & Place

Photolithography-Reactive-Ion-Etching Processing:
Monthly Manufacturing Capacity > 300 wafers

Automation Powered Manufacturing Excellence

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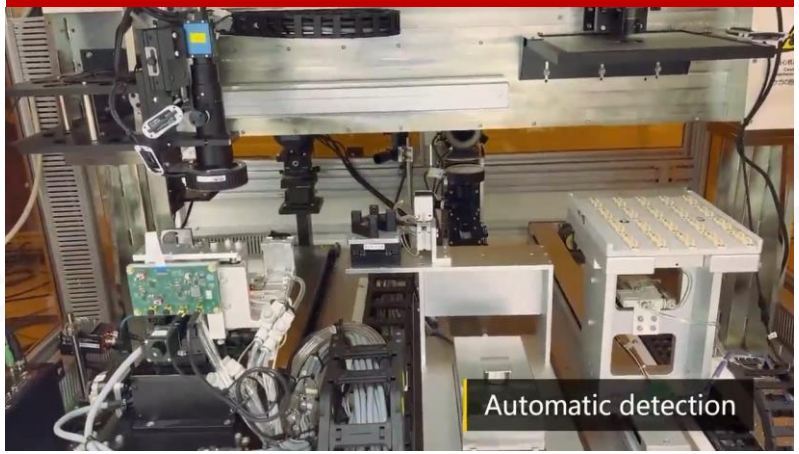
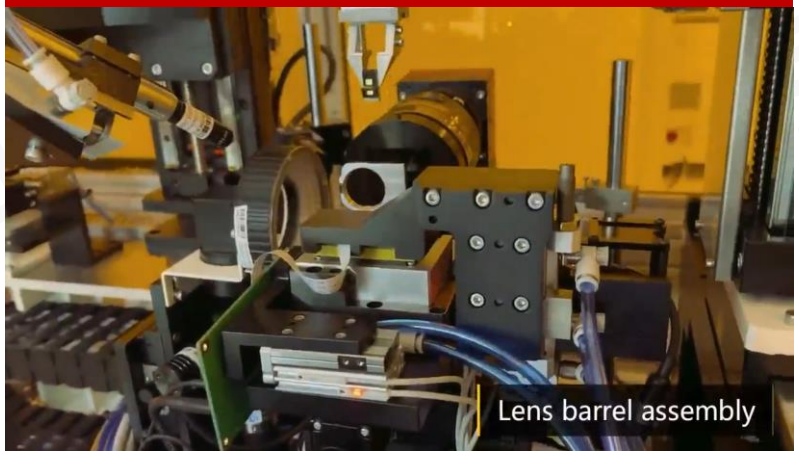
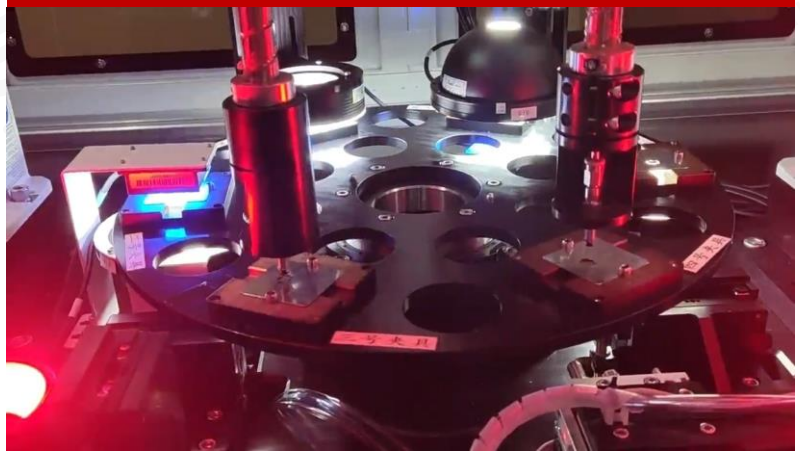
Automatic Optical Alignment



Automatic Assembly



Automated Optical Inspection

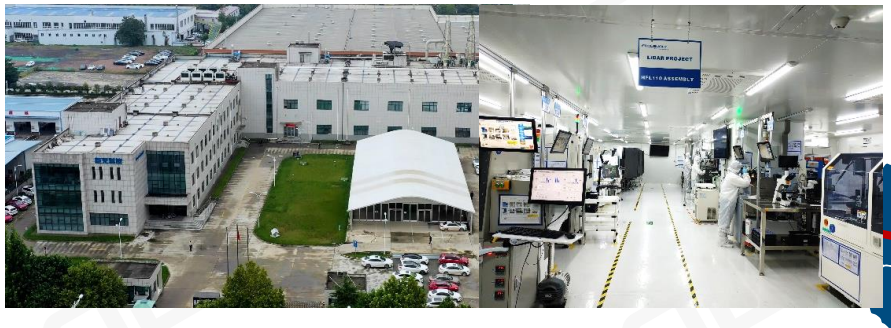


Laser Optics Production Line

LiDAR Transmitter Production Line

YouTube link

Global Facility/Capacity Expansion - China



Focuslight HQ, Xi'an, China
13787m² facility with 3710m² clean room space for **diode laser components & automotive** LiDAR Tx module production lines

Hefei, China
A new facility of ~25,000 m² focused on **pan-semiconductor application solutions** will be constructed.

Haining, China
UV-LLO and UV-SLA systems being fully deliverable from here

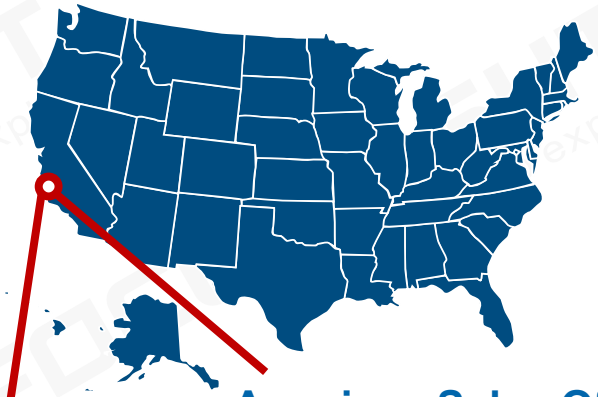
Shaoguan, China
A new facility of ~15,000 m² focused on **medical and health application solutions** is being constructed

Dongguan, China
Total 65,000m² of building to be constructed. #1 and #3 buildings with ~6000 m² of clean room space has started operating in September 2022. Monthly **micro-optics** manufacturing capacity > 3 million pcs

Global Facility/Capacity Expansion – Europe & USA

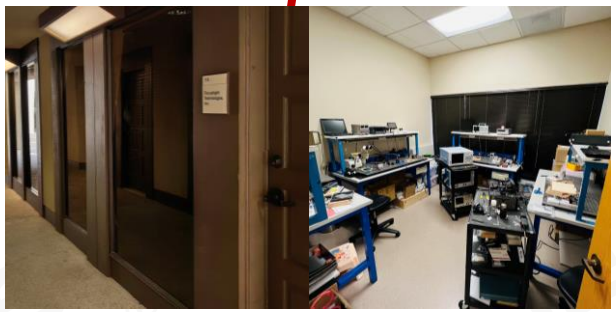
Dortmund, Germany
13000m² facility with 2870m² production area
Extension of **high-volume micro-optics wafer** production line (FAC /SAC) with manufacturing space increased by 150%
Expansion of UV laboratory finished

EMEA Sales Office
being an important part of our global presence



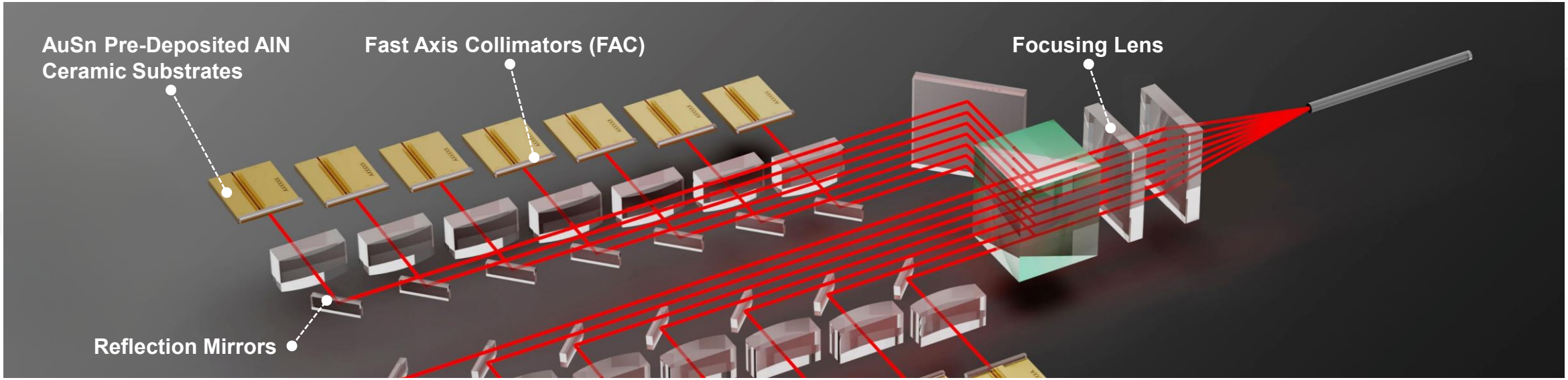
Americas Sales Office
being an important part of our global presence

Neuchâtel, Switzerland
1,150m² of cleanroom area in two facilities – specially for **wafer-level production of industrial and automotive optics**



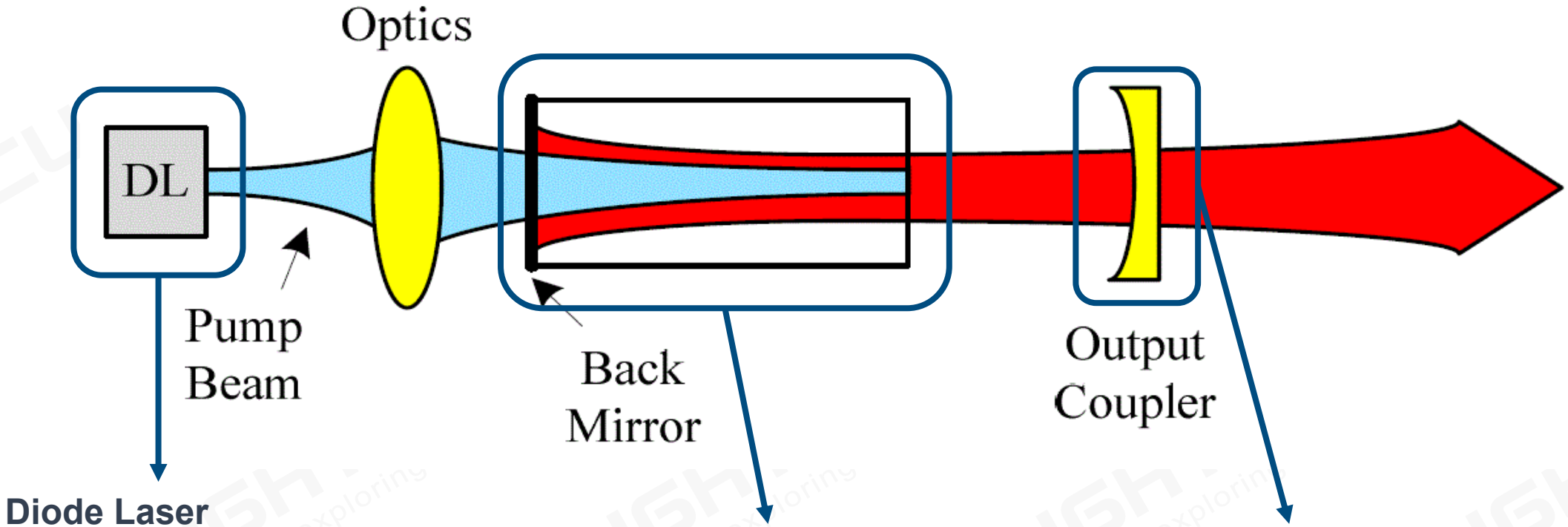
Silicon Valley, USA
The **new innovation lab** has been set up with our Chief Scientist working here

Applications – Fiber Laser Pumping



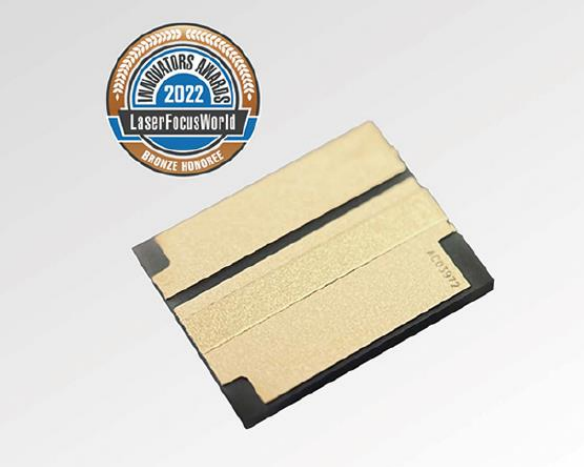
- **AuSn pre-deposited ceramic substrates** – stable and reliable thanks to the high thermal conductivity and suitable thermal expansion coefficient;
- **Fast axis collimators (FAC)** – fundamental and efficient solutions for shaping the beam emitted by the pumping sources;
- **Reflection mirrors** – highly accurate and efficient in reflection, reducing optical signal losses;
- **Focusing lenses** – coupling the collimated laser beam precisely into the output fiber;

Applications – Solid State Laser Pumping



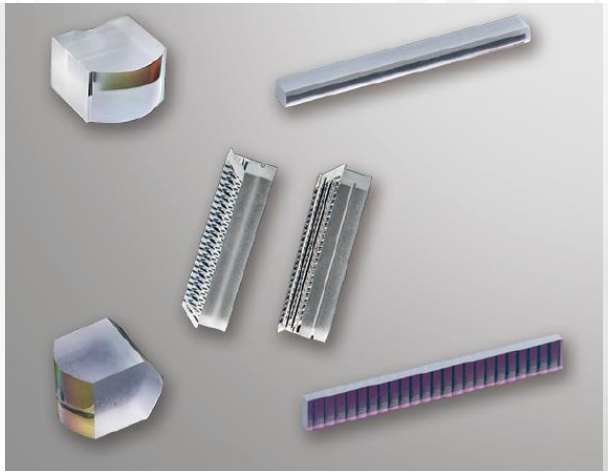
Diode Laser: ↓ Footprint ↑ Reliability ↑ Efficiency ↓ Cost

Applications – Blue Laser



AuSn Pre-Deposited Substrates

For optical cooling of the blue diode laser

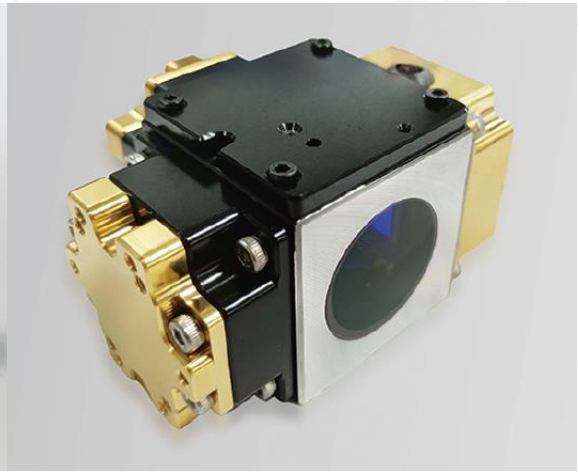


Beam-Shaping Optics

For highly efficient use of the photons

Laser Engraving Modules

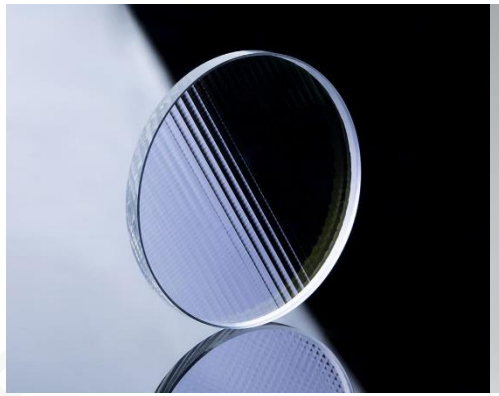
With 20W output (typ.) in 10 x 5 x 5 cm dimensions



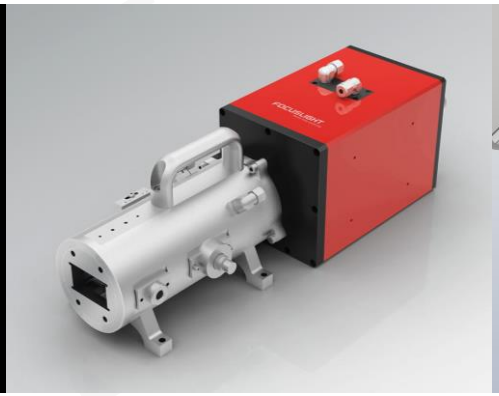
Lighting Modules

With 8,000 lm output (typ.) in 7.5 x 6.5 x 4.5 cm dimensions

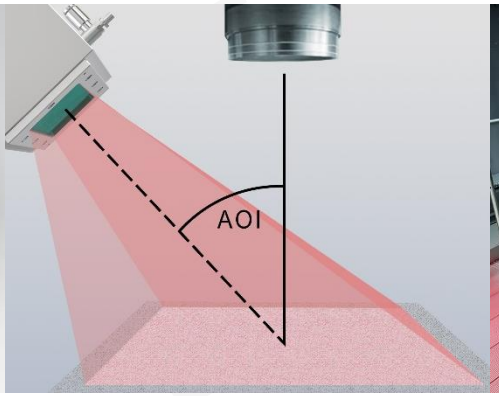
Application – Semiconductor



- Beam homogenization technology powers **lithography** illumination system – key optical component in steppers
- > 15 years supply to the major manufacturer of semiconductor lithography tools



- Laser system solutions with high power density and different beam profiles, designed for various **laser-based wafer annealing processes** including IGBT backside annealing and SiC annealing



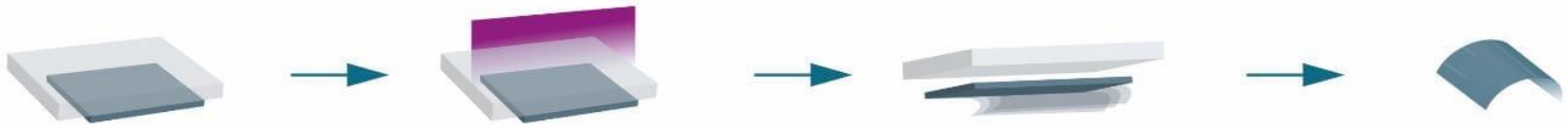
- Off-axis beam shaping technology powers laser surface treatment as well as surface inspection
- Typically used in **solar cell industry**

- Beam shaping on UV solid-state laser, 30000:1 aspect ratio is achievable
- Up to 1000 mm long UV Line generation system enabling **OLED laser lift-off** process
- Next-gen LTPS **solid-state laser annealing** process.

- Based on 976nm diode laser with adjustable beam output and >97% homogenization in energy distribution
- Ideal for **Mini / Micro LED manufacturing processing**, e.g. laser mass transfer, laser mass soldering, and laser chip repair

Applications – Display

- Several tens of beam shapers (plasma display pixel structuring)
- Several green 100 mm line beam systems (laser lift-off)
- > 600 mm UV line beam production system (laser lift-off)



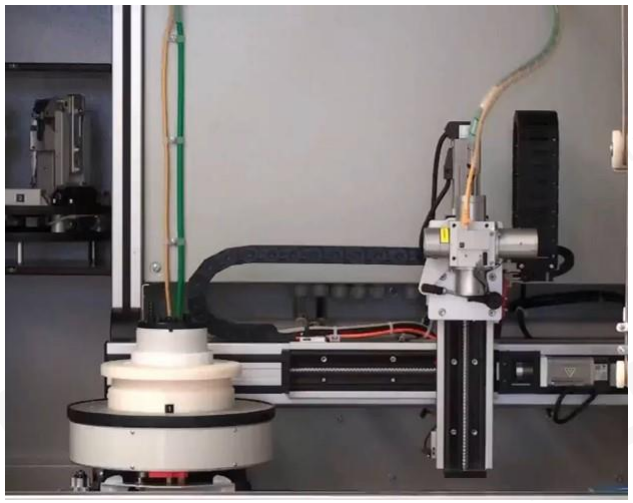
This graphic shows the laser lift off process.

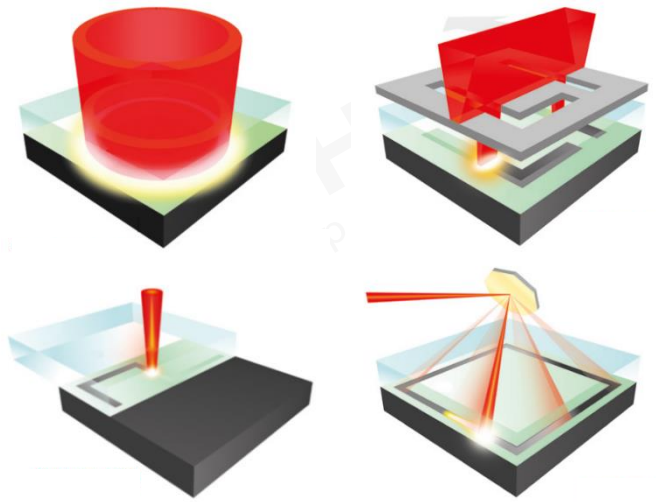
Pre-production stage:

- Laser-induced thermal imaging process (LITI) with IR diode lasers
- Thermal optimization of TCO layers with Focuslight Line Beam Technology
- Low-temperature polysilicon annealing (LTPS) for AMOLED and high-resolution LCDs

Applications – Welding

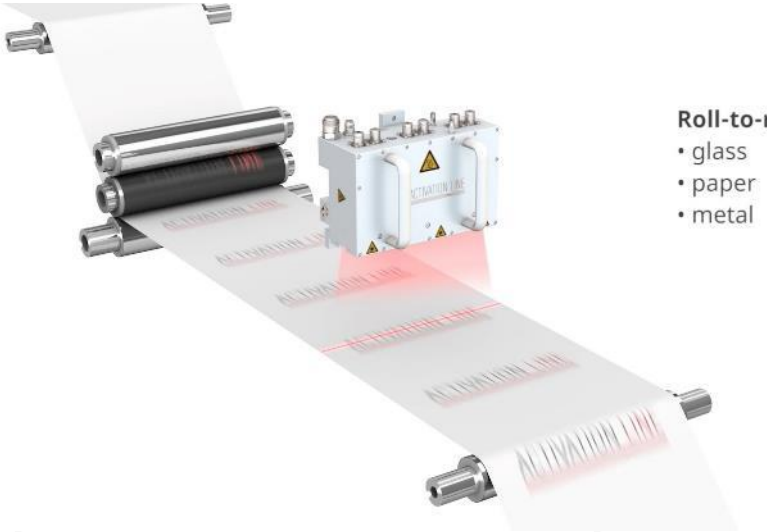
- Laser transmission welding of thermoplastics in the wavelength range 808nm-980nm
- Simultaneous welding of thermoplastics with Focuslight Line Beam Technology
- Cutting, welding and soldering of metals
- Metal surface finishing with Focuslight Line Beam Technology
- Corrosion- and abrasion-resistant hard metal coatings on steel



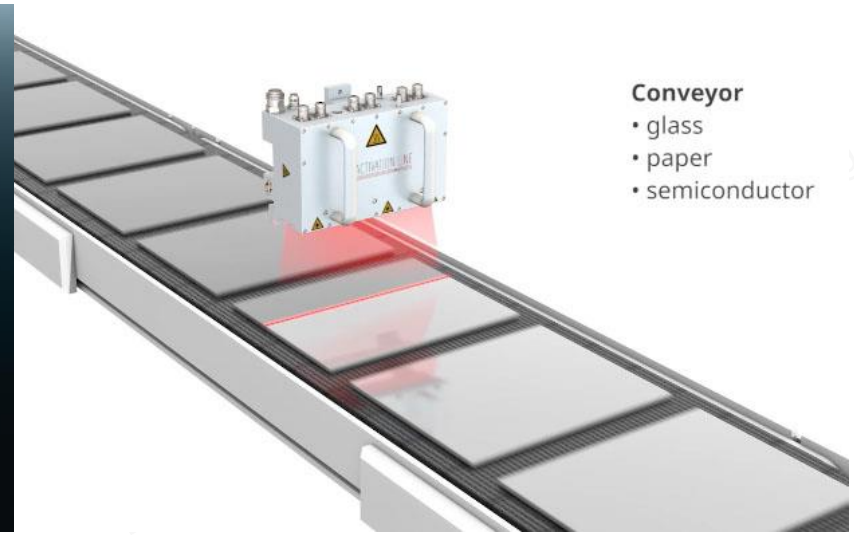


Applications – Coating

- vRTP (very Rapid Thermal Processing) of functional coatings with Focuslight Line Beam Technology:
- Large-scale, energy-efficient and precisely controlled processing
- … for a large variety of substrate materials (metal, glass, polymer, paper etc.)
- … for a large variety of processes (annealing, crystallization, drying, sintering etc.)
- … for a large variety of coating materials (semiconductors, metals, TCOs etc.)

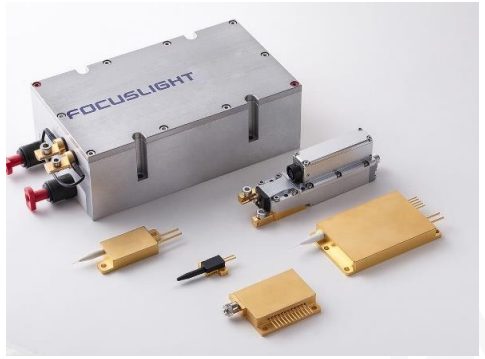


Roll-to-roll
- glass
- paper
- metal

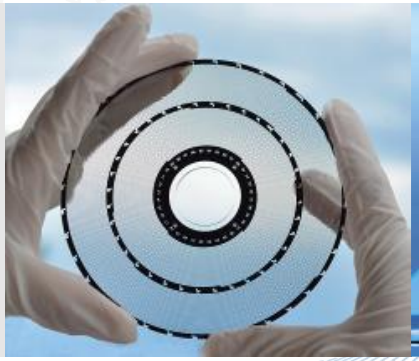


Conveyor
- glass
- paper
- semiconductor

Applications – Medical and Health



- **Direct diode laser solutions, fiber coupled laser solutions, and optical components** for medical and aesthetic uses including laser hair removal, laser body sculpting, dental, surgery, laser fluorescein angiography (LFA), etc.
- Strong positioning in **professional hair removal** industry worldwide
- Fast growth in **consumer health solution** and **body sculpting** laser modules, massive production project awarded from world-class home-use aesthetic equipment manufacturer
- Imprinted polymer lens, diffractive elements (DOEs), square lenses arrays for various applications such as **waveform sensing, 3D metrology optics (odontology), health monitoring**
- **Nipkow discs** for **confocal microscopy**



Applications – Optical Communication

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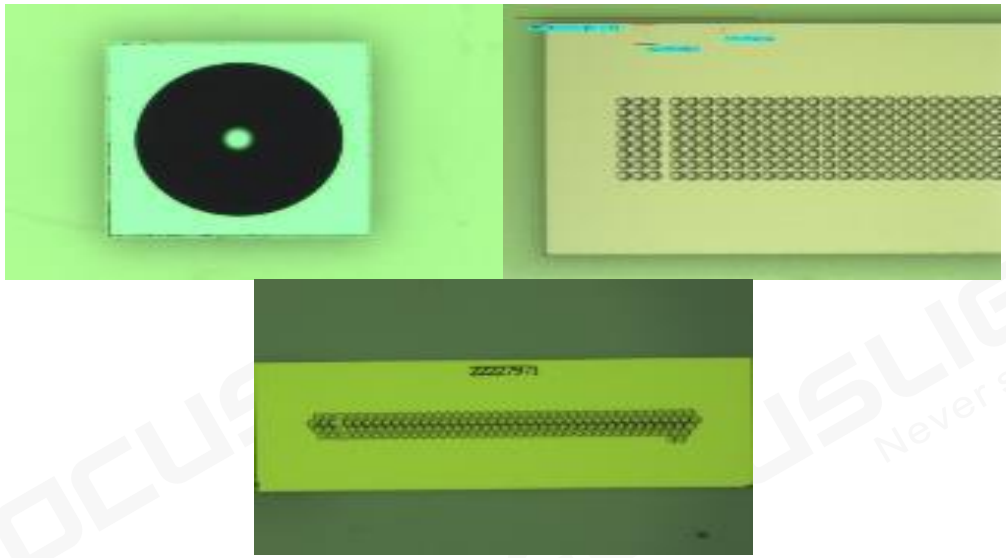
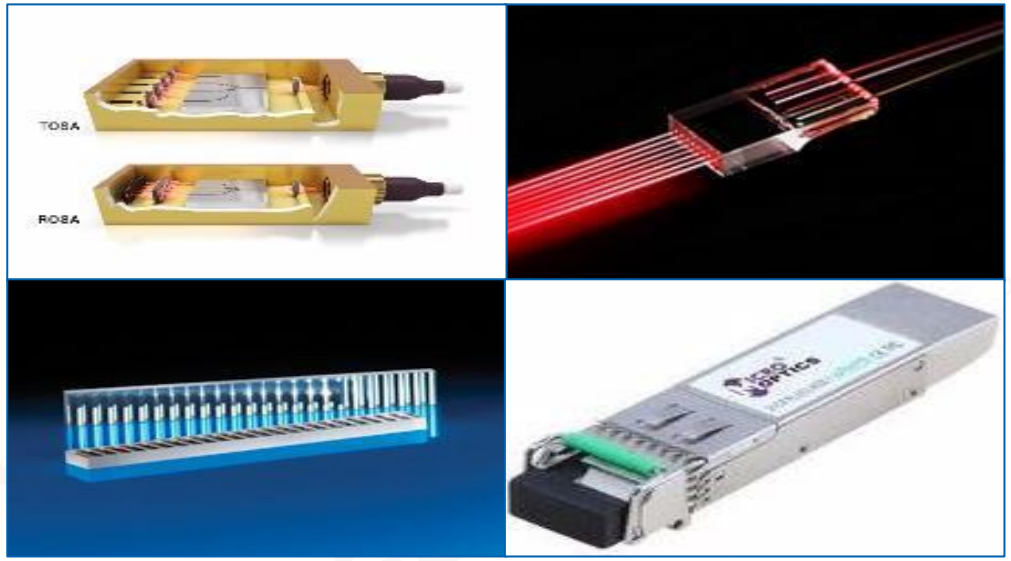
Refractive Optics

- Focusing / collimating microlens
- Prism integrated MLA
- Microlens arrays
- Si refractive microlens arrays



Transceiver (TROSA, ROSA, TOSA *)
Fiber couplers for PICs
Co-packaged optics
Wavelength selective switches
Extended beam connectors



* TROSA = Transmit & Receive Optical Sub Assembly, ROSA = Receiver Optical Sub Assembly, TOSA = Transmitter Optical Sub Assembly

Application – Automotive LiDAR

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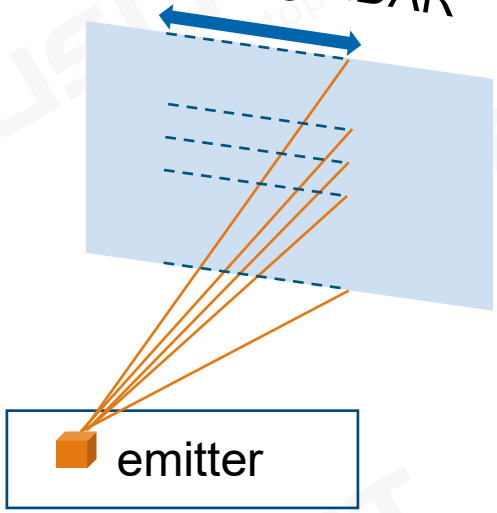
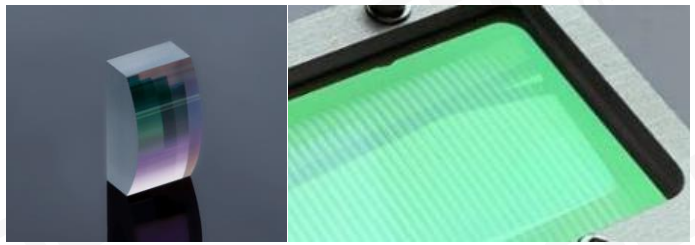
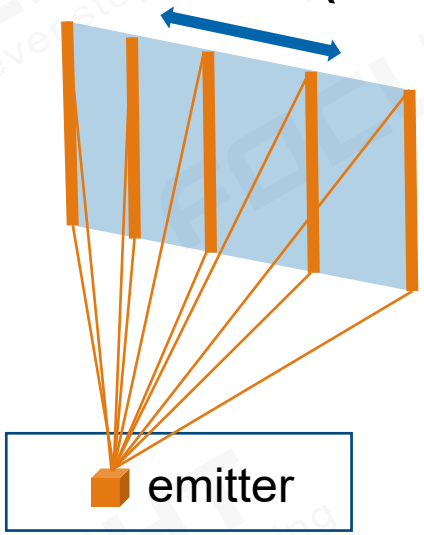
Mechanical 360° spinning LiDAR





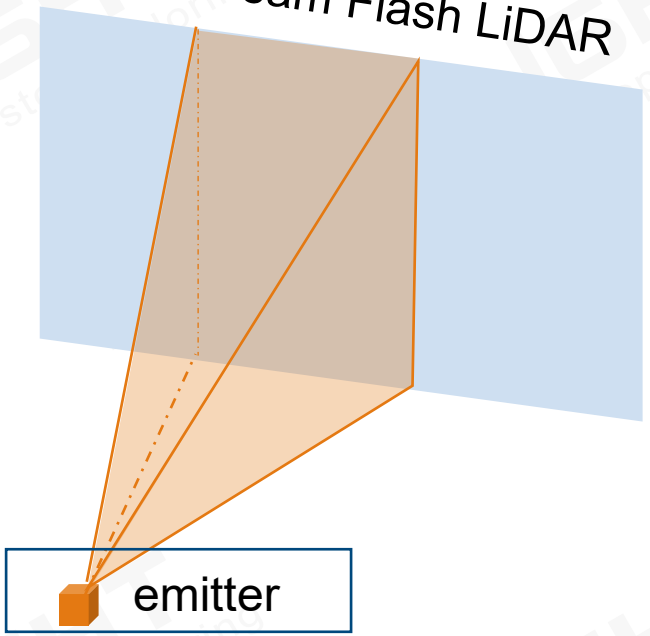
Automotive-grade optics and subassembly

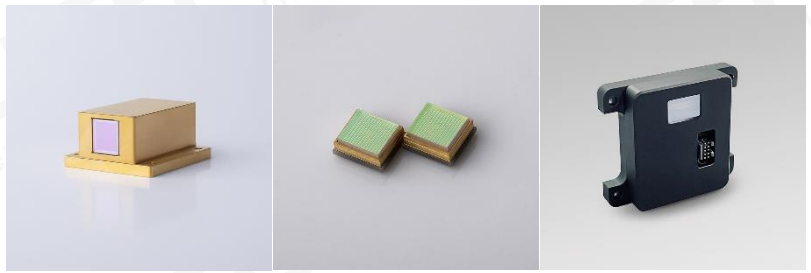
Hybrid Solid State Line beam 1D steering LiDAR



Line Beam Transmitter Modules

Pure Solid State Area Beam Flash LiDAR





Flash Transmitter Modules

Application – Automotive Lighting

Refractive and Diffractive Optics

- Microlens arrays
- Diffractive elements
- Spatial filter arrays
- Hexagonal / round / cylindrical / square lens arrays

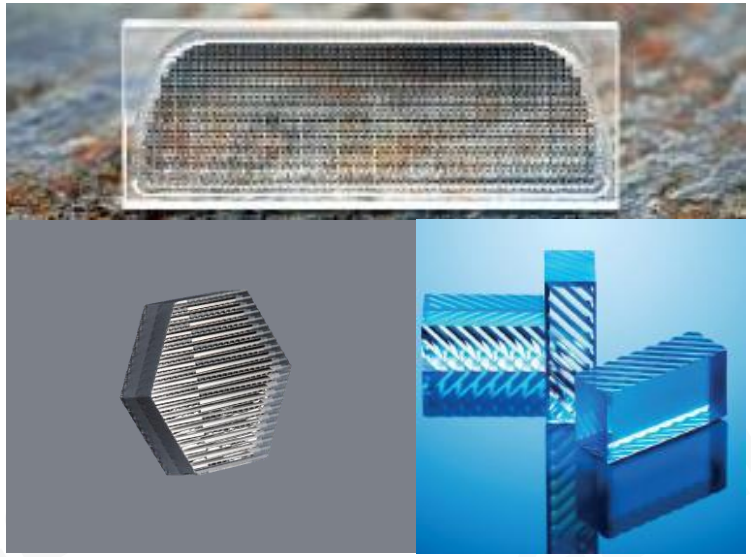
Headlamps

Exterior projections

Interior projections

LiDAR Receiver

LiDAR Transmitter



Applications – Illumination and Machine Vision

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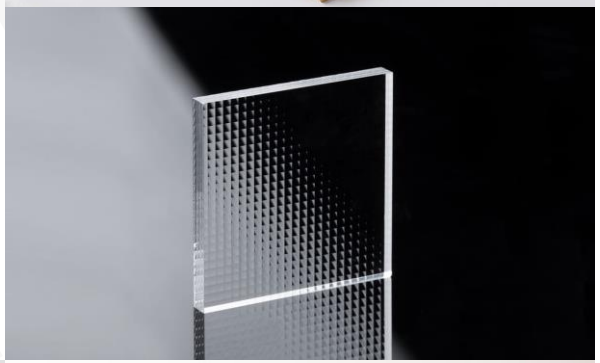
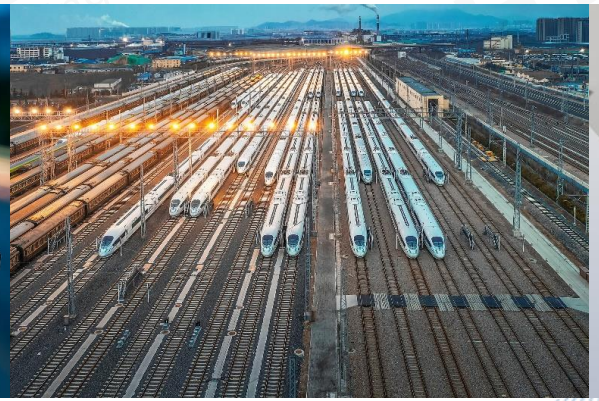
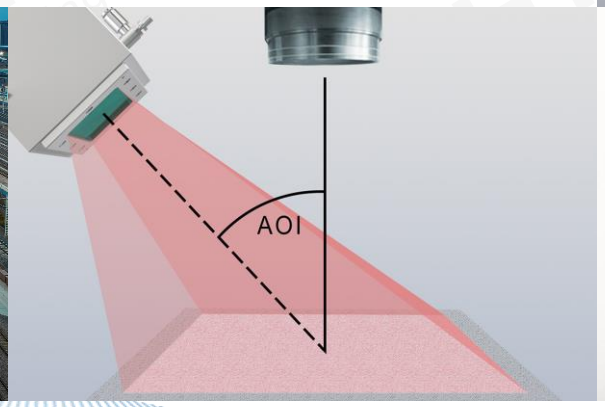
- **Diode laser sources** with different power and wavelength ranges, **Fiber coupling modules (FCM) products** and **micro-optic components** for the **illumination application**.
- **Homogenizers, diffusers, and beam shaper modules** can disperse laser light in one direction up to a full illumination angle ranging from a few mrad to over 160°, which illuminates the target area precisely and uniformly (95%), providing high uniformity and high-resolution illumination system for **CCD/CMOS imaging and surface inspection system**, for instance, **for rail transit and bridges**, and in various **industrial application fields**.







Sales Network

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- Worldwide established distributors
- Direct sales offices in China, Switzerland and US
- Manufacturing site in Xi'an, Dortmund, Dongguan, Haining, and Neuchâtel

Summary

FOCUSLIGHT
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- Diode laser light source leader and beam shaping expert
- One stop source from active devices to passive optics, from components to modules to application subassemblies
- Total solution, versatile customization service and field service provider
- Strong RDE capability, high volume production capacity and low-cost manufacturing
- Strong IP position in diode lasers and laser optics
- Financially healthy and strong financial backing from investors for long term growth

- **Your committed and reliable long-term partner in diode lasers and laser optics**

THANK YOU

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