

# Focuslight Corporate Overview

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2025-09

# Focuslight Overview

- 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)
  - **Laser optics components** (Photon Control)
  - **Photonics module and system solutions** (Application Solutions) focusing on optical communication, consumer electronics, pan-semiconductor, automotive, and medical and health applications.
- A **global photonics foundry** offering process development and manufacturing services to the global photonics community.
- Publicly listed in the Shanghai Stock Exchange (Ticker Symbol: 688167).

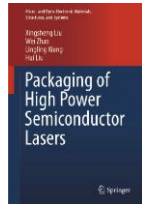


# Milestones



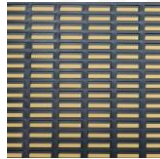
2007

Founding of Focuslight



2013

World's first monograph on packaging of HPDL published



2017

Technology breakthrough of gold-tin film deposition

**LIMO**  
Lissotschenko Mikrooptik

2017

Acquisition of LIMO;  
Started providing photon control and photonics application solutions



2018

UV-L750 Ultraviolet Line Laser System won Prism Award



2018

Dongguan delivery and high-volume manufacturing center officially in operation



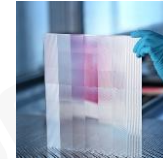
2019

Automotive LiDAR transmitter project awarded from international Tier 1

**FOCUSLIGHT**  
Never stop exploring

2019

Global branding identity upgrade



2019

Production of micro-optics on world's largest glass wafer (300 x 300 mm<sup>2</sup>)

**IPO**

2021

Successful IPO at Shanghai Stock Market



2023

Line Beam LiDAR Transmitter Module awarded nomination from European Tier 1

**SUSS** MicroOptics

2024

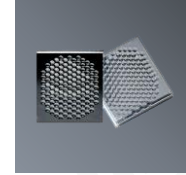
Acquisition of SUSS MicroOptics

**HEPTAGON**

2024

Acquisition of ams OSRAM's optical component assets;

Relaunch of Heptagon brand



2025

MLA for automotive projection awarded nomination from European Tier 1

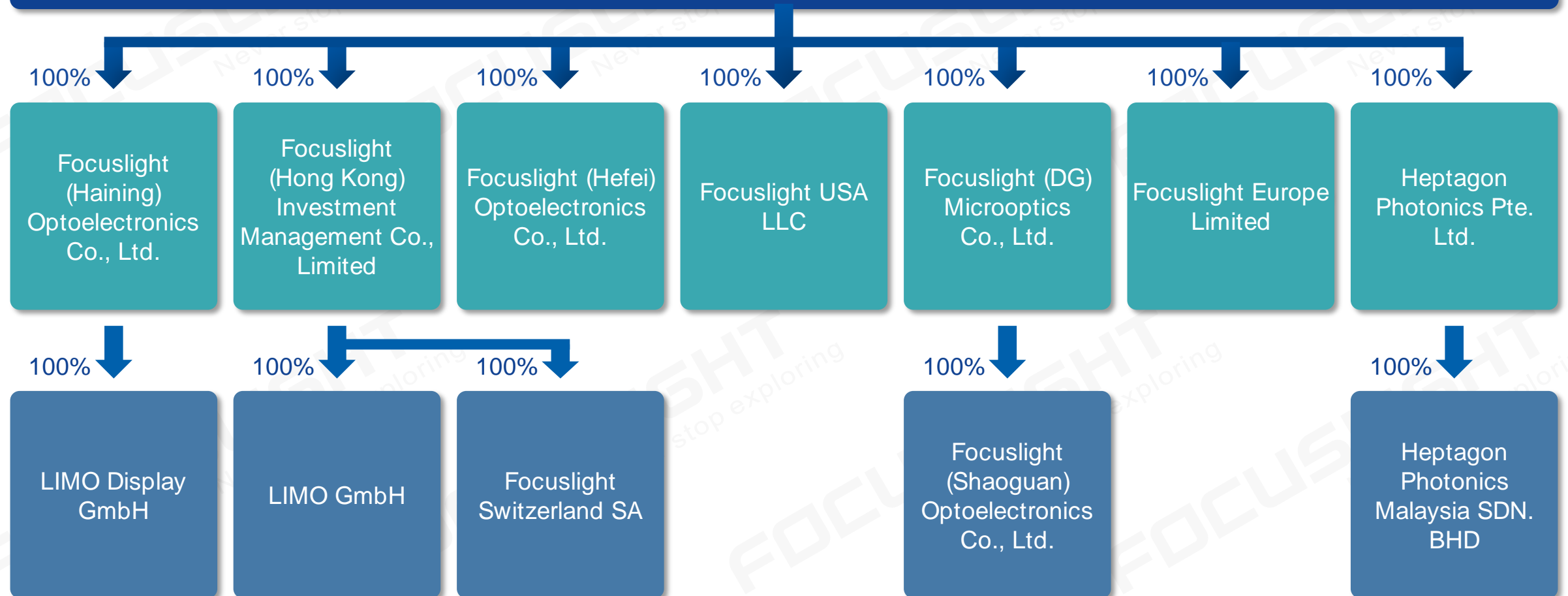


2024

Shaoguan Base officially in operation

# Focuslight Corporate and Subsidiaries

## Focuslight Technologies Inc.





# Focuslight Global Operations System

Leverage the strengths and capabilities of each location to cater to specific customer demands and optimize operational efficiency.

Through centralized decision-making, integrated operations, and lean management, a high-efficiency, low-cost global operations system is established.



# Further Expanding Flexibility

- **Strong International Presence:** Focuslight has strong presences in China, Germany, Switzerland, Singapore, and other global regions. We can leverage our existing manufacturing capabilities in these locations to meet customer demand efficiently.
- **Flexibility in Manufacturing:** As demand grows, we are exploring additional manufacturing capacity in Malaysia to complement our global operations. This flexibility allows us to adapt to the evolving needs of customers worldwide.



In a world of evolving market dynamics, we provide the solutions you need to stay ahead – flexible, efficient, and forward-thinking.

# Key Facts & Figures



Employees

>900



Revenue Proportion  
Invested into R&D (2025H1)

~24%



Yearly Revenue  
(2024)

620M RMB



Patents Valid  
Worldwide

>570



Facility Worldwide

>49,000m<sup>2</sup>

Clean Room Worldwide























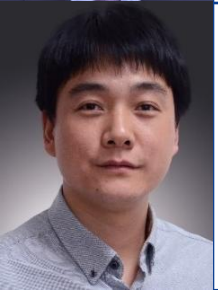


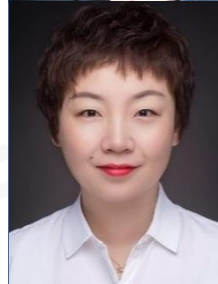







>17,000m<sup>2</sup>



ISO 9001  
ISO 14001  
ISO 45001  
IATF 16949  
Certified



# Corporate Management Team

	<p><b>Dr. Xingsheng Liu (Victor)</b> Chairman, CEO</p> <p>Research and management experience in the US, with 100+ publications, 300+ patents, 30+ invited papers internationally</p> <p>Committee Member of SPIE and IEEE</p> <p>  </p>		<p><b>Dr. Chung-En Zah</b> CTO</p> <p>30+ years of research experience in the US, with 300+ publications, 50+ patents in optoelectronics and telecommunication</p> <p>IEEE Fellow, OSA Fellow, 2x R&amp;D 100 award winner</p> <p>  </p>
	<p><b>Mr. Sinclair Vass</b> Corporate SVP of International Sales &amp; Business Development</p> <p>35+ years experience in international photonics markets, having held technical, commercial and general management leadership roles at major multinational companies</p> <p>   </p>		<p><b>Mr. Guowei Zhu (Gavin)</b> Corporate VP of Quality, President of Automotive BU</p> <p>20+ years in international automotive companies, rich experience in IATF QMS and plant operations management by World Class Manufacturing (WCM) &amp; Lean manufacturing</p> <p>  </p>
	<p><b>Mr. Tan Chee Huo (Michael)</b> Corporate SVP of Business Process and IT</p> <p>25+ years in IT leadership, specializes in digital business transformation, global project management, multicultural team leadership in fast-paced international industries, and strategic decision-making</p> <p>   </p>		<p><b>Mr. Ye Dai (Robert)</b> Corporate VP of Global Sales</p> <p>Excellent track record in worldwide sales, product line and business unit management leadership roles</p> <p>20+ patents granted</p> <p> </p>
	<p><b>Ms. Yiping Ye (Alison)</b> Board Director, CFO</p> <p>Over 15 years management experience and multi-field business practices</p> <p>In-depth understanding in LTC, IPD, intercultural cooperation and rich operational experience in market development, project operation and business management</p> <p> </p>		<p><b>Mr. Qichuan Yu</b> Chief Product/Process Officer</p> <p>Over 25 years of experience in wafer-level optics, optical sensor and camera packaging, SAW/BAW filter R&amp;D, and NPD execution, with a strong focus on mastering, tooling, and wafer-level processes</p> <p>   </p>

# Corporate Management Team



**Ms. Xuefeng Zhang**  
(Jennifer)

Board Director, Board Secretary,  
Marketing Director

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



**Mr. Hong Wang**

Corporate R&D Director

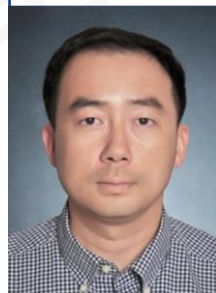
PhD in physics and Master in computer science. 20+ years in quantitative analytics, capital market risk modeling and architecting. Expert in building analytic infrastructure and system. Rich experience in multinational team management.



**Mr. Lucas Zhang**

Global Operations Vice President

20 years of global supply chain management experience at multiple Fortune 500 companies, with strong expertise in supply chain planning and management within the consumer electronics industry



**Mr. Jinchao Qu**

President of Laser Source 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, and operational management

Very deep knowledge of technology development and optimization



**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. Weiye Gu**

President of Pan-Semiconductor  
Solutions BU

12 years experience in photonics R&D and product management, with rich track records of leaderships in developing and delivering system solutions for pan-semiconductor and industrial applications



**Dr. Tobias Senn**

President of Strategic Growth Division

15+ years of experience in micro-optical component development for the consumer market. Expert in design for manufacturing and process development, with a strong focus on high-volume production and yield improvement



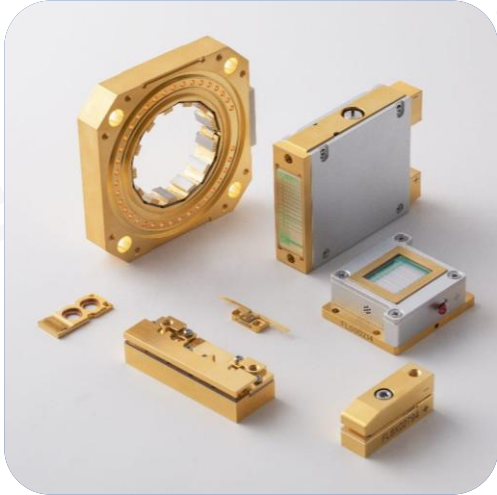
**Mr. Hongyuan Liu (Tom)**

President of Global Photonics Foundry  
BU

20+ years in R&D and operations management, specializing in optical imaging and non-imaging system design, WLO process & integration, and optical component manufacturing. Proven track record in new product development



# Products and Businesses



Photon  
Generation



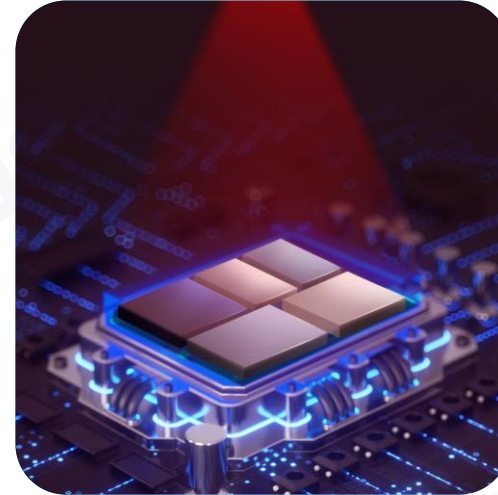
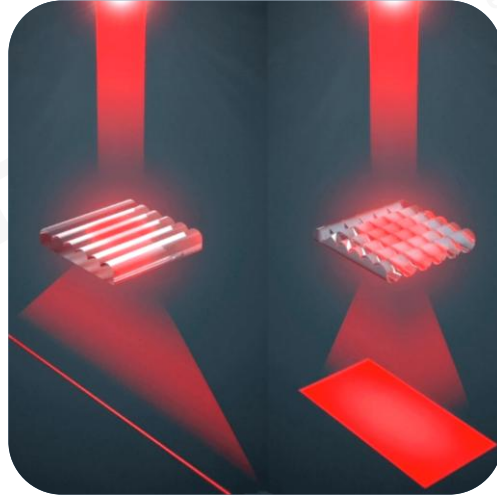
Photon  
Control



Photonics  
Application  
Solutions

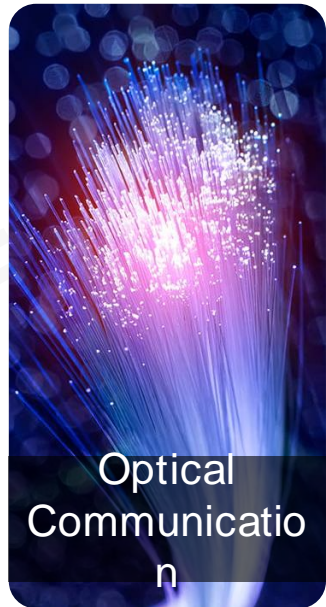


Global  
Photonics  
Foundry

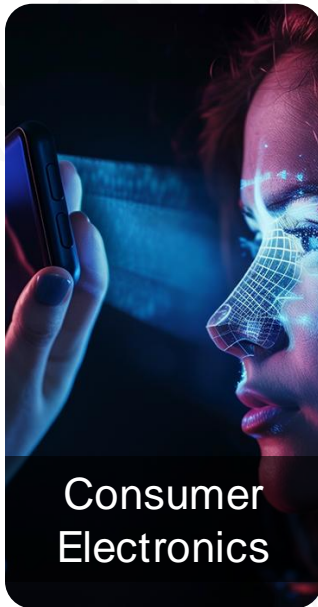




# Markets



5%  
revenue



5%  
revenue



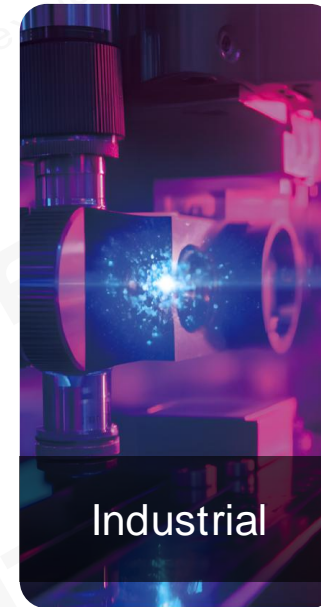
24%  
revenue



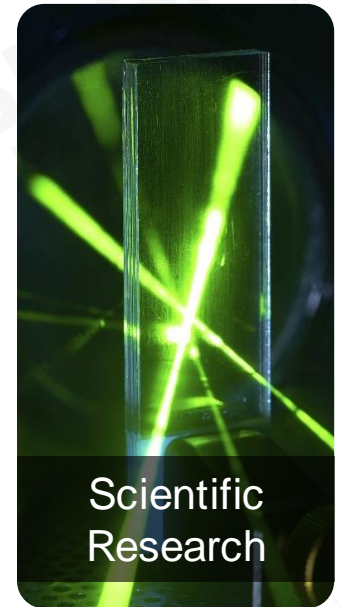
18%  
revenue



13%  
revenue



32%  
revenue



3%  
revenue

*\* Based on accumulated revenue data from 2025 H1 (figures unaudited)*



# Value Proposition

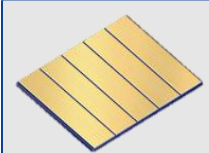
## Total Solution and Service in Full Value Chain

Raw  
Materials

Components,  
Devices

Modules,  
Subsystems,  
Application  
Systems

Solution,  
Support,  
Service



**Chips** (Strategic  
collaboration  
with Suppliers)



**Packaging  
Materials**



**Optics  
Substrate**



**Light Sources**



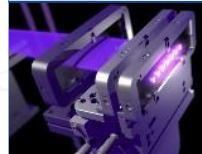
**Optical  
Components**



**Fiber Coupled  
Modules**



**Laser  
Subsystems**



**Optical  
Subsystems**



**Integrated  
Modules**



**Application  
Centers**



**Technical  
Support**



**Field Service  
Centers**

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



## Do what we do best

Offer the best value

Optimize to the extreme

Achieve the best  
performance / quality-to-  
price ratio

## Commitment to Customers

- Lowest cost manufacturing for high volume products
- Willing to take technical risk, but request customer commit market share in return
- Willing to take investment risk in R&D and capital including M&A for customer but request customer commit market share in return
- Collaboration transparency, fast response, IP protection and long-term partnership



## What we don't do

Take high market risk

Be greedy

Be too aggressive

Compete against our  
customers

**Vision**

**FOCUSLIGHT**  
Never stop exploring

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





# Mission

**FOCUSLIGHT**  
Never stop exploring



Be the global trusted  
photonics solution provider  
through innovation,  
manufacturing excellence  
and fast response

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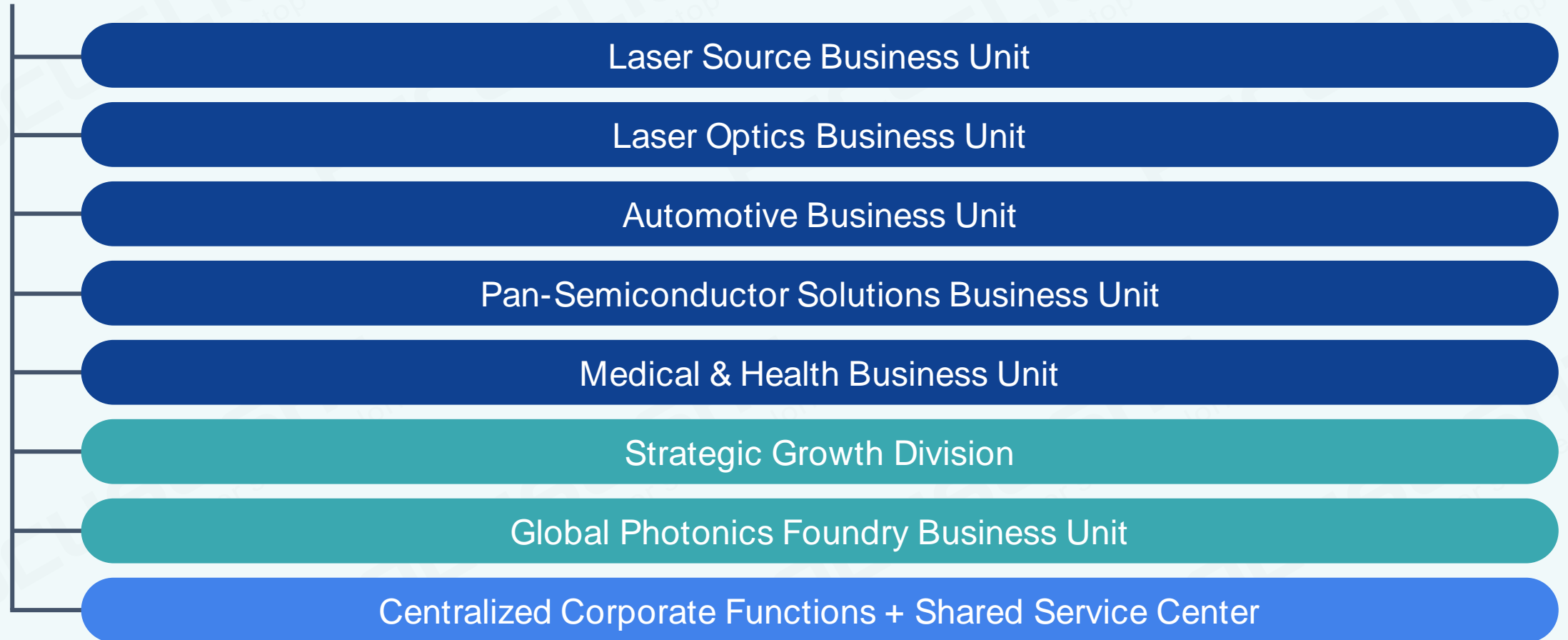
The corporate/parent brand that offers innovation-driving photonics solutions, covering all available businesses except WLO, WLS, WLI, and related fields.

 **HEPTAGON**

A brand focused on business around the technologies of WLO, WLS, WLI, and related fields, ultimately aiming for volume production.

# Company Organization

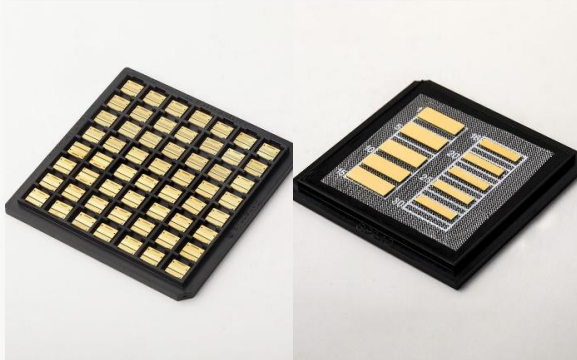
## Focuslight Technologies





# Products – Diode Laser Components

Under Focuslight Brand



## Advanced Materials

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



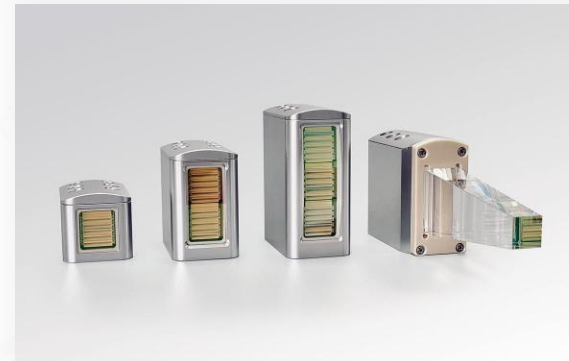
## Active Devices

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



## Fiber Coupled Modules

- Emitter-Based FCM
- Bar-Based FCM



## Professional Medical Application Components

- Laser Hair Removal Engines



# Products – Laser Optics Components

Under Focuslight Brand

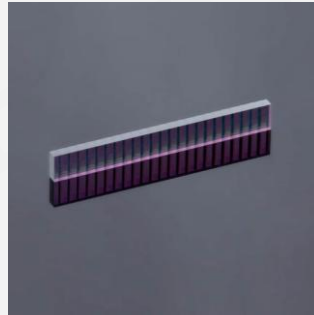
## Single Lenses and Linear Lens Arrays



FAC



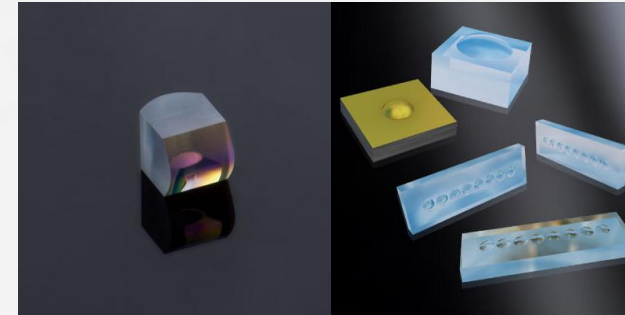
SAC



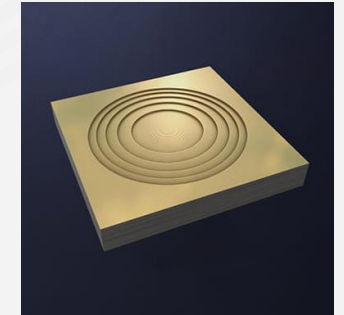
SAC array



BTS

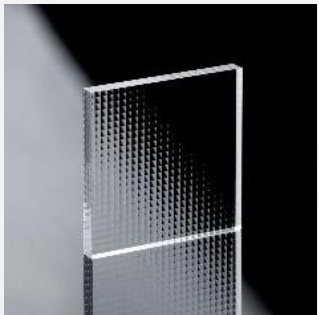


Fiber coupler and collimator

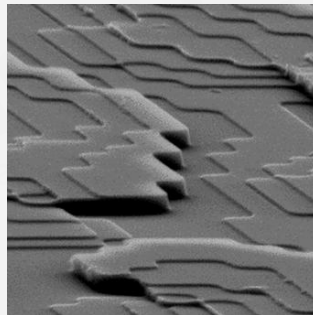


Collimating DOE

## Area Lens Arrays



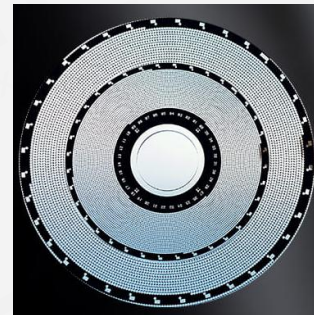
Homogenizer and  
diffuser



DOE beam splitter,  
dot or line generator

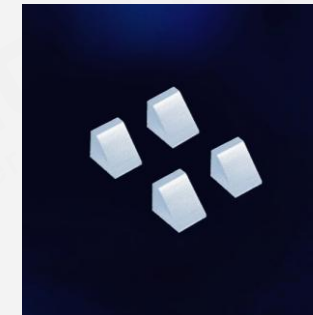


Shack-Hartmann  
array

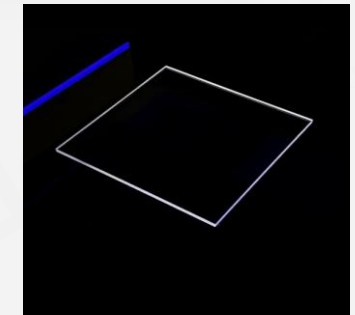


Pinhole array

## Plano Optics and Coatings



Micro prism

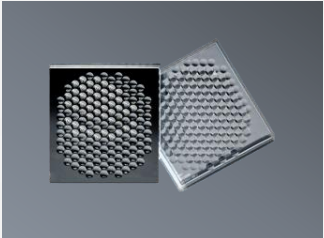


Window

# Products – Automotive Application Solutions

Under Focuslight Brand

## Projected Lighting

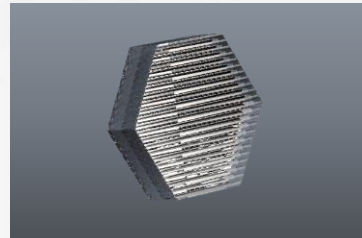


MicroLens Arrays for Projection



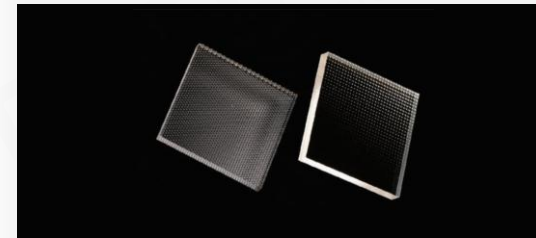
MLA-Based Dot Projectors

## Smart Headlights



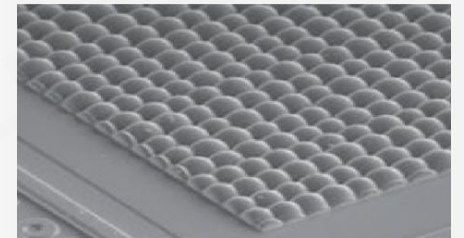
MicroLens Arrays

## Driver Monitoring System



Homogenizers / Diffusers for Illuminators

## AR HUD



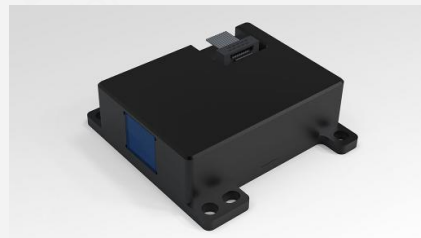
Homogenizers / Diffusers

## LiDAR

### EEL / VCSEL Based LiDAR Transmitter Modules



VCSEL Flash Transmitter 700W

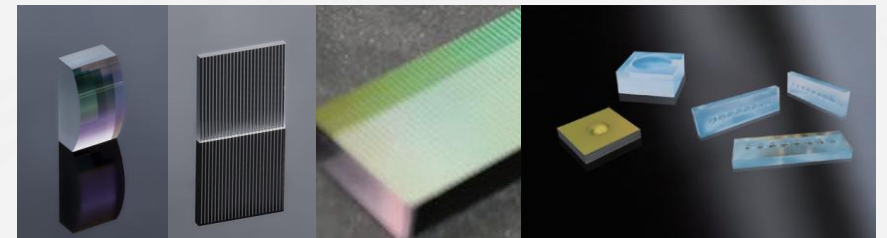


905nm 700W EEL Line Beam Transmitter



VCSEL Line Transmitter 1000W

### Beam Shaping Optics



Fast Axis Collimators, Diffusers, Homogenizers, Collimators and Arrays in Glass, Polymer and Silicon

# Products – Pan-Semiconductor Application Solutions **FOCUSLIGHT**

Never stop exploring

Under Focuslight Brand

## Advanced Display Manufacturing



Solid-State Laser Lift-Off (LLO) System

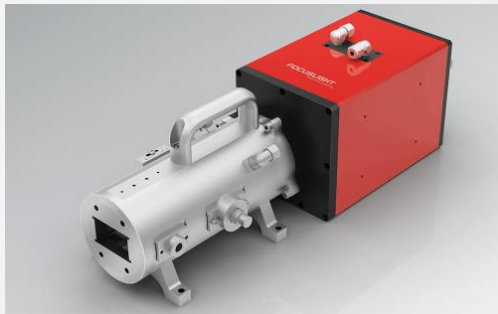


Solid-State Laser Annealing (SLA) System



Variable Beam Laser System  
(Mini and Micro LED Processing)

## IC Manufacturing



IC Wafer Annealing System



Variable Beam Laser System  
(Advanced Chip Packaging)

## Industrial Solutions



IR Line System



Industrial Laser Module

# Products – Medical and Health Application Solutions

Under Focuslight Brand

**Laser Hair Removal  
Modules**



**Laser Skin Rejuvenation  
Modules**



**Laser Body Sculpting  
Modules**



**Diode Laser Drivers**





# Products and Services – Based on WLO and WLS

Under Heptagon Brand

## Polymer on Glass (PoG) Optics



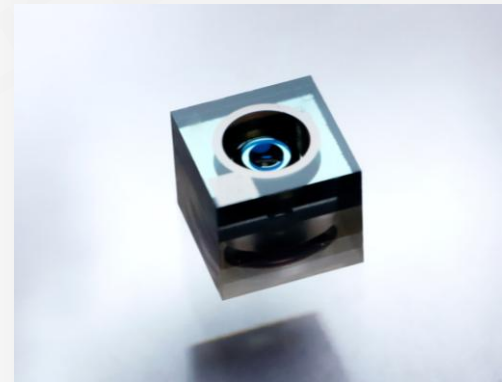
Micro lens arrays, diffusers, DOEs,  
Fresnel lenses

## Semiconductor Wafer Foundry Service



Imprinting of optical components or  
lens modules on silicon wafers (e.g.,  
for sensors, VCSELs, MicroLEDs)

## Imaging Lens Modules



Stacked imaging lens modules  
compatible with CMOS

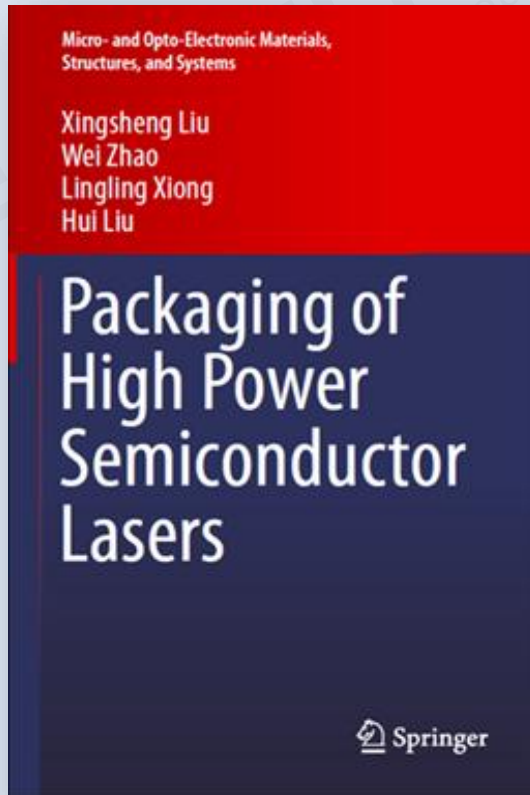
## Sensor Module Packaging Service



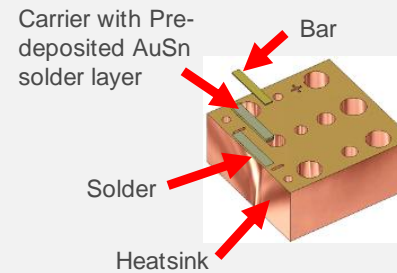
Packaging service for sensor  
modules

# Core Competence

## Diode Laser



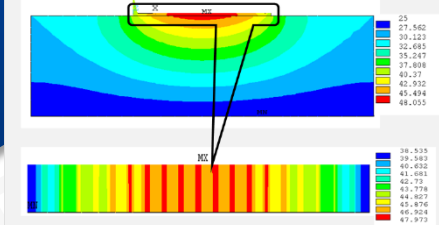
### Eutectic Bonding



Significantly enhances thermal conductivity, reducing thermal stress, and thus improving the products' performance and lifetime

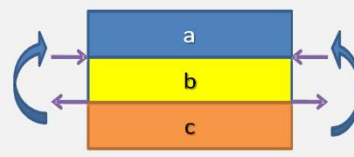
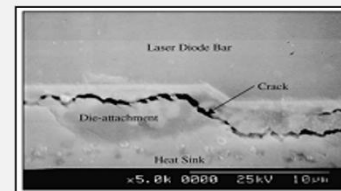
### Thermal Management

#### Finite Element Thermal Analysis and Design



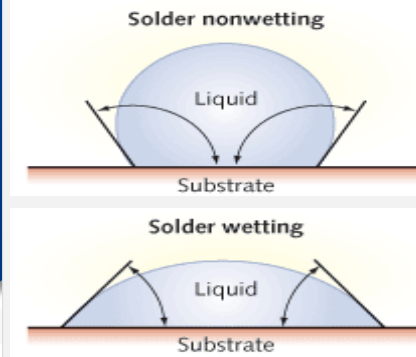
Effectively improves the ability of heat dissipation to ensure a higher output power

### Thermal Stress Control



Lowers and homogenizes the thermal stress, and improve the device performance

### Interface Materials and Surface Engineering

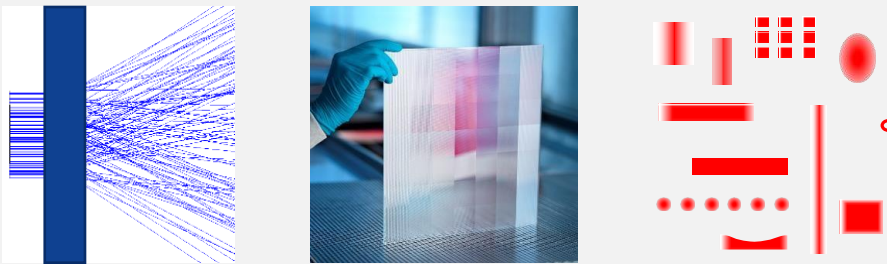


Greatly improves wettability and bonding strength of packaging materials, enhancing long-term reliability

# Core Competence

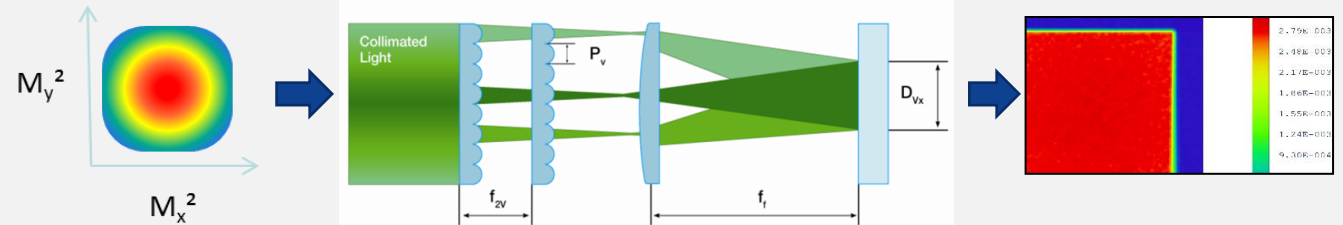
Beam Shaping – *The Right Photon at the Right Place and Time!*

## Micro Optics Design and Simulation



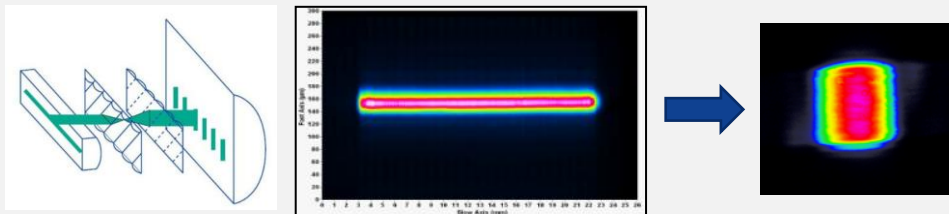
Acyindrical free-form micro-optics / arrays / diffusers  
/ DOE splitters / beam shaping systems

## Homogenization

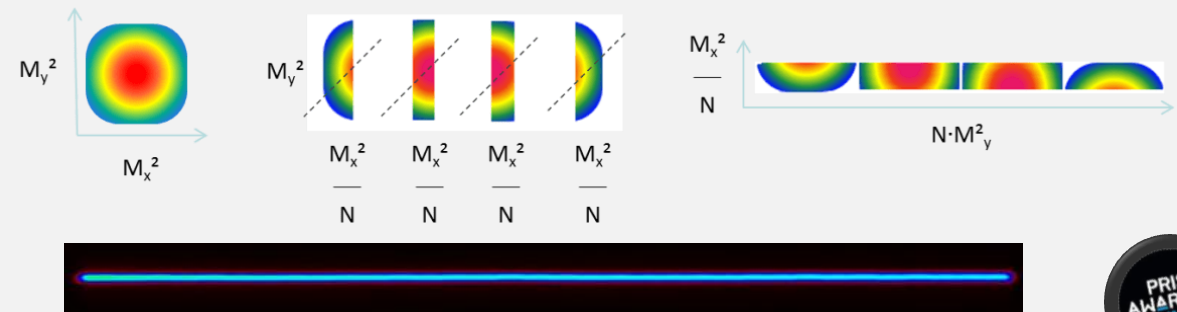


Uniform and homogeneous illumination in any desired shape

## Beam Transformation



Asymmetrical → Symmetrical beam



Symmetrical beam → High density line beam

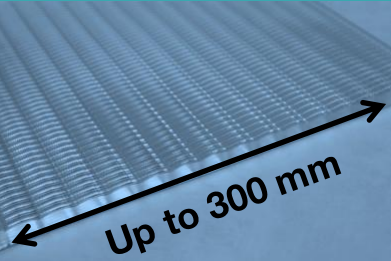

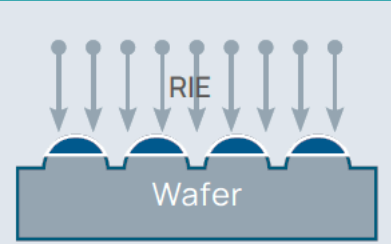
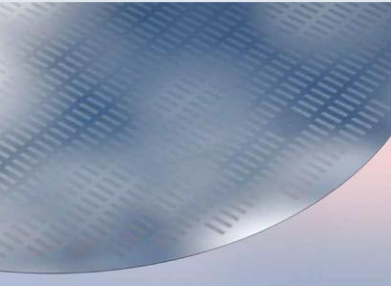
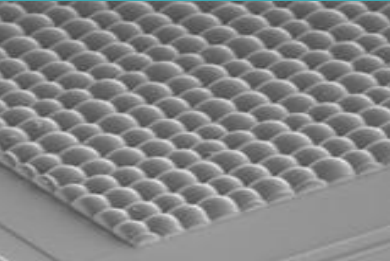
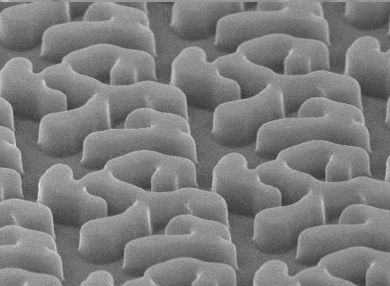
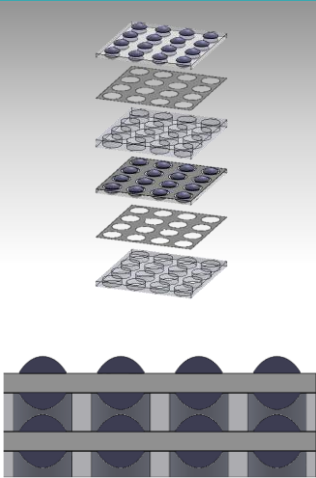

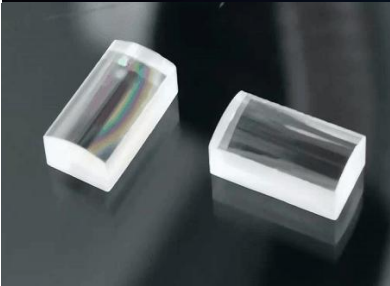

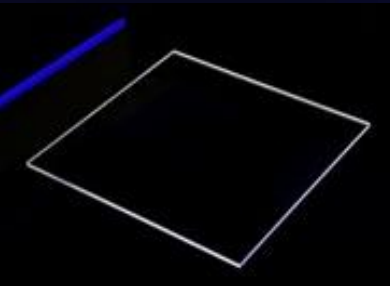
Our UV-L750 System for Laser Lift-Off (LLO) was Prism Awards winner in 2018





# Core Competence

## Optics Manufacturing

Wafer Level Simultaneous Structuring	Wafer Level Photolithography-RIE (reactive ion etching)	Wafer-Level Optics (WLO) Precision Imprinting	Wafer-Level Stacking (WLS)	Precision Glass Molding	Cold Processing
FE: Dortmund, Germany BE: Asia	FE: Neuchâtel, Switzerland BE: Asia	Shaoguan, China Singapore	Singapore	Dongguan, China	Dongguan, China
 	 	 		 	 
With inorganic materials: Glass, Fused Silica, Silicon, $\text{CaF}_2$		With polymer on glass		With inorganic materials: Glass, Fused Silica, Silicon, $\text{CaF}_2$	
High LIDT Optical Coating: Anti-reflection, high-reflection, beam splitter, band filter, and various customization (UV, VIS, IR)					

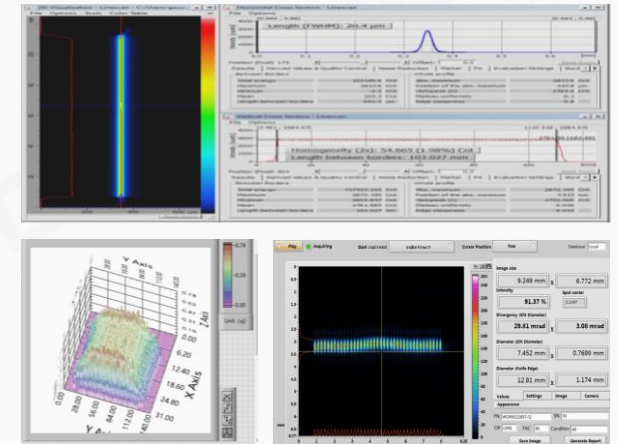
# Core Competence

## Test, Analysis and Diagnosis

### Test and Characterization of High-Power Diode Laser

A comprehensive physical diagnostic model allows full characterization of a set of key parameters, such as:

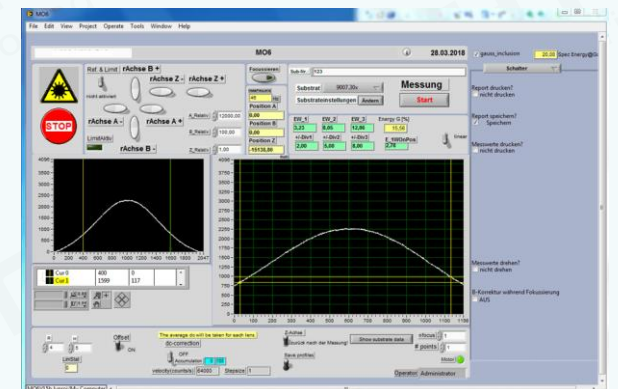
- LIV
- Spectrum
- Polarization
- Far-field / Near-field
- Spatial spectrum
- Spatial polarization
- Spatial beam profile
- Smile effect
- Lifetime



### Metrology and Analysis of Optical Components

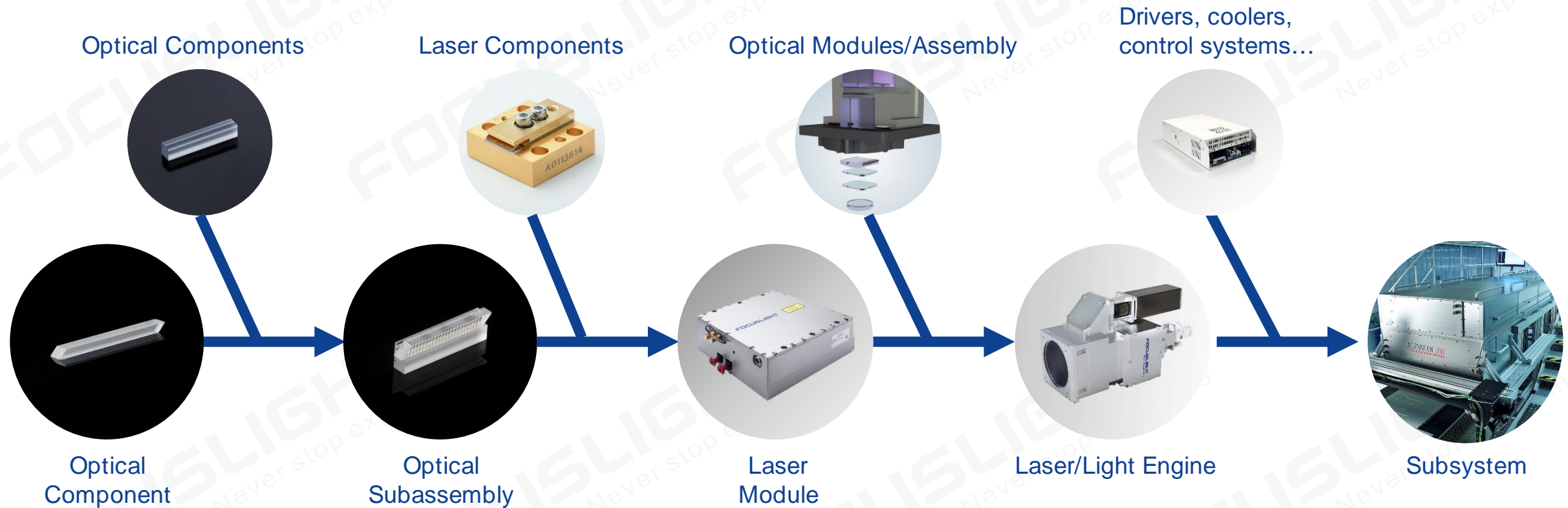
Wave optics models are used in conjunction with tactile surface measurements for precise analysis of optical functions such as:

- Focusing
- Collimation quality
- Beam uniformity



# Core Competence

High Precision Optical Assembling Process and In-house Equipment: From Components to Subsystems



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

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

## Built-in Quality to Meet Customer's Needs

Assurance of  
Design Quality

Design of the Optimal Design  
Quality to Meet Customer Needs

Assurance of  
Manufacturing Quality

Built-in Optimal  
Design Quality

Assurance of  
Service Quality

NPI / APQP

Mass Production

RMA / Warranty

Planning

Research & Development

Production Engineering

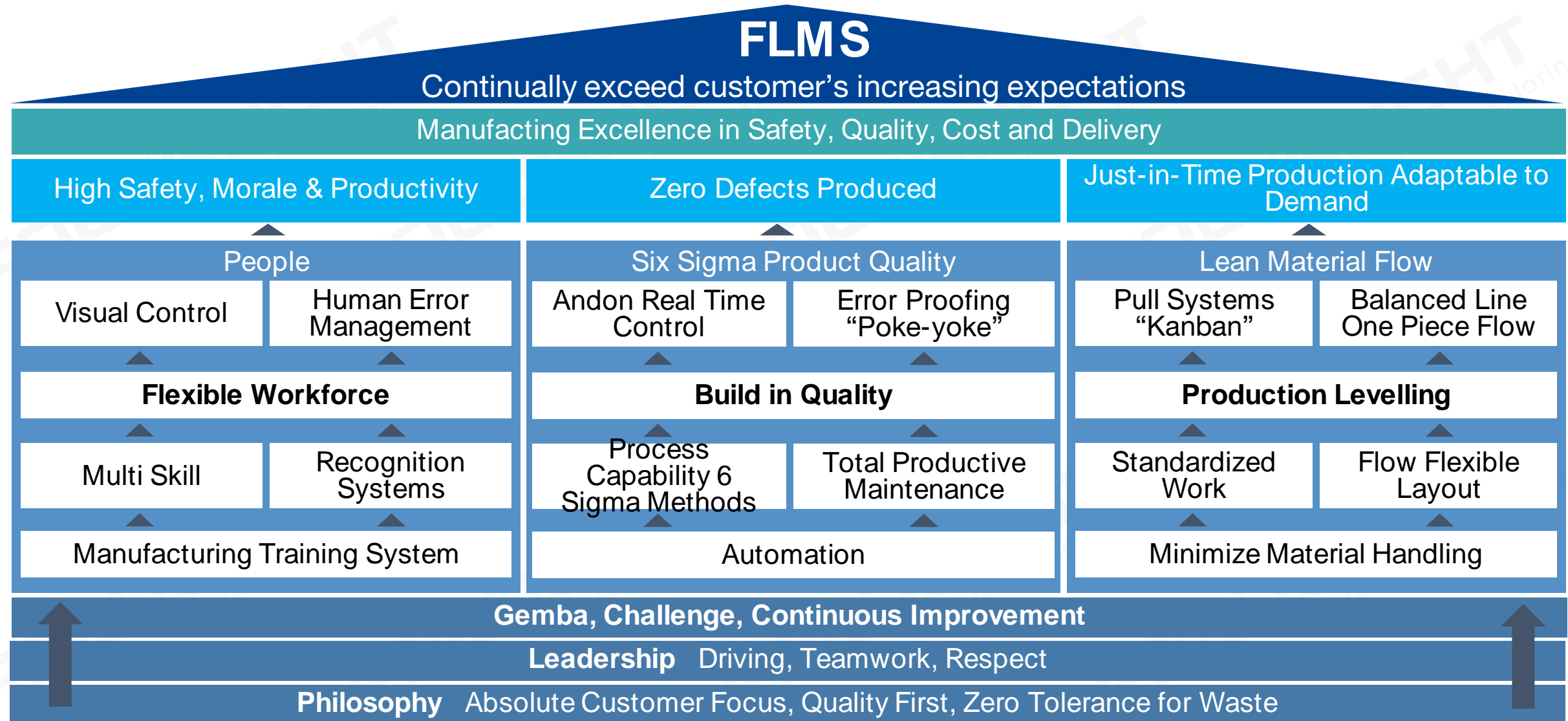
Manufacture

After Service

## Promotion of Consistent Quality Assurance Activities

Quality Control System of Design	Quality Control System of Manufacture		Quality Control Evaluation System
<ul style="list-style-type: none"> <li>• QFD</li> <li>• Critical Characteristic, Special Characteristics</li> <li>• Tolerance Chain Design</li> <li>• FMEA, FTA</li> <li>• Design Validation</li> <li>• Design Review</li> </ul>	<ul style="list-style-type: none"> <li>• Parameter design</li> <li>• Process FMEA</li> <li>• Process Capability Study</li> <li>• Automatic Inspection,</li> <li>• Poka Yoke / Error Proof</li> <li>• Measurement System Analysis</li> </ul>	<ul style="list-style-type: none"> <li>• QA Network</li> <li>• Supplier Quality Management</li> <li>• Production Validation</li> <li>• Control Plan</li> <li>• QC Circles</li> <li>• Production Part Approval Process</li> </ul>	<ul style="list-style-type: none"> <li>• QC diagnosis</li> <li>• Quality assurance Meeting</li> <li>• Quality Auditing Improvement Meeting</li> </ul>

# Focuslight Manufacturing System (FLMS)



# Manufacturing Excellence

- Apply the **lean manufacturing practices** to all production lines, including automotive, diode laser 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

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

DPC production



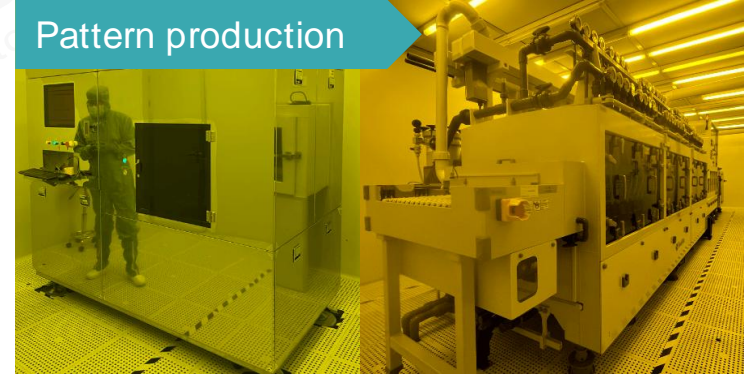
Etching production



Au plating



Pattern production



Cleaning



AuSn deposition



Laser marking



Dicing



AOI inspection



Advanced Materials Manufacturing Capacity > 2M pcs / month



# Manufacturing Capacity

## Diode Laser Components

Packaging & Assembling



Optical Assembling



Testing & Measurement



Quality Inspection



Burn-in & Lifetime Test

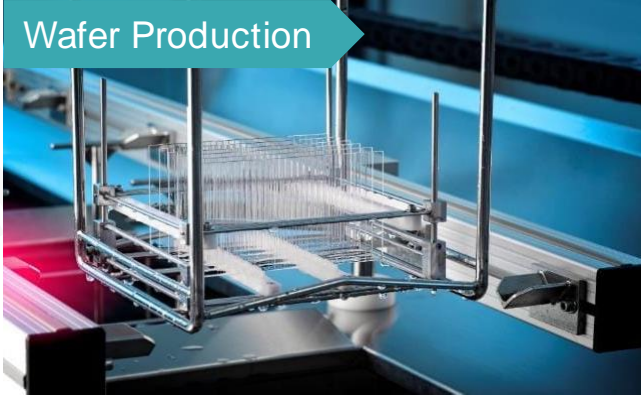


Diode Laser Manufacturing Capacity > 500K pcs / year  
Burn-in Capacity 600K pcs / year

# Manufacturing Capacity

## Laser Optics Components: Wafer-Level Simultaneous Structuring Processing

Wafer Production



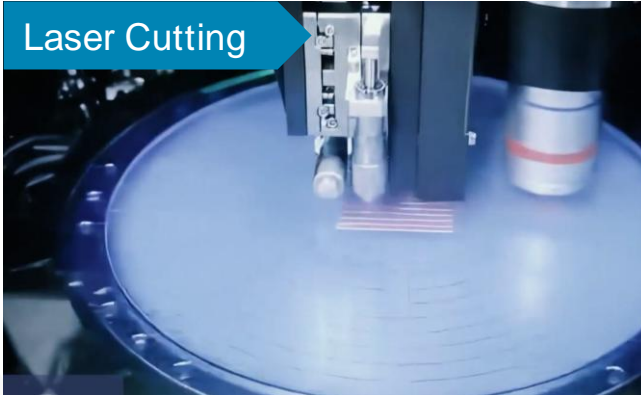
Quality Mapping



Coating



Laser Cutting



Auto Loading



Auto Packing



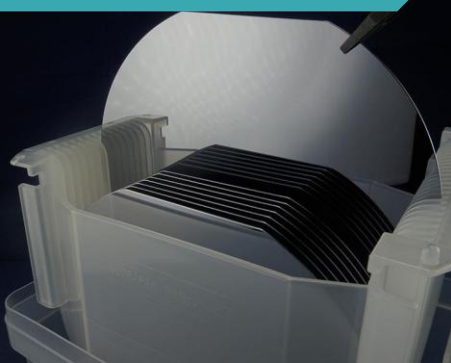
Wafer-Level Simultaneous Structuring Processing:  
Manufacturing Capacity > 2K wafers / month or > 5M pcs lenses / month



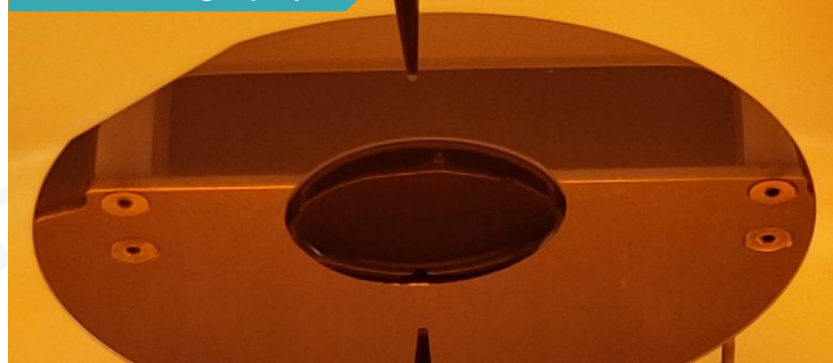
# Manufacturing Capacity

## Laser Optics Components: Photolithography-Reactive-Ion-Etching Processing

Wafer Raw Materials



Photolithography



Dry Etching



Thin Film Deposition



Blade Dicing



Pick & Place



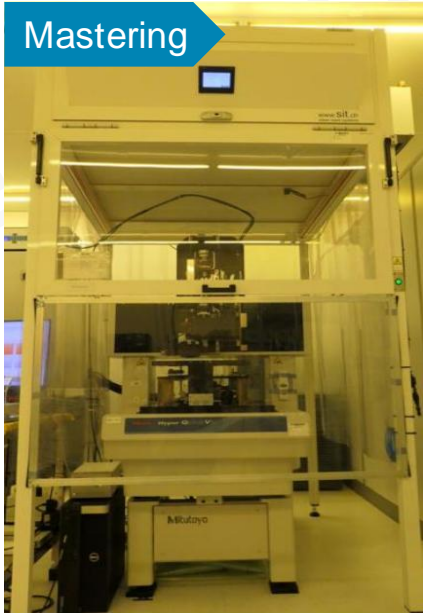
Photolithography-Reactive-Ion-Etching Processing:  
Manufacturing Capacity > 300 wafers / month



# Manufacturing Capacity

## Laser Optics Components: Imprinting Processing

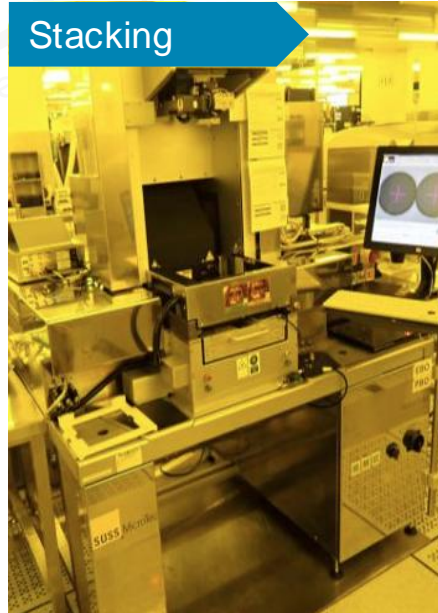
Mastering



Replication



Stacking



Testing



Singulation



Imprinting Processing:  
Manufacturing Capacity > 15K wafers / year or > 30M pcs lenses / year

# Global Photonics Foundry Services

From Concept to Mass Production

## DFM\* Stage

Outcome: Full-fledged Design for WLO-Technology, Manufacturability and Risk Analysis

\*DFM: Design For Manufacturing

Specification Requirements

(ERS, RFI, sharing)

## Design Feasibility Study

Outcome: Concept & prelim. Design (fulfilling requirements, dimensions, est. cost),

## Product Validation & Qualification



Outcome: 2<sup>nd</sup> or x<sup>th</sup> Gen working samples, Creation of Product Documentation (e.g. delivery req. specifications, drawings, technical datasheets etc.), cost analysis

## Mass Production

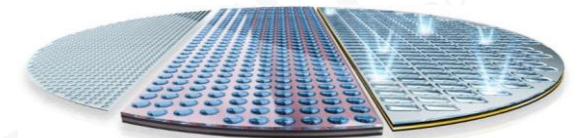
WLO Components fully compliant according to Product Requirements and Test Specs.

## Design Verification / POC Stage

Outcome: 1<sup>st</sup> Gen Working Samples manufactured, testing data results for e.g. yield analysis

## Ramp-Up

Wafer Level Optics (WLO)

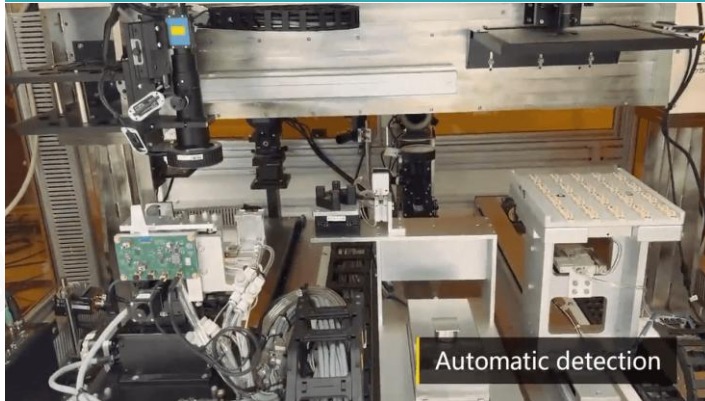




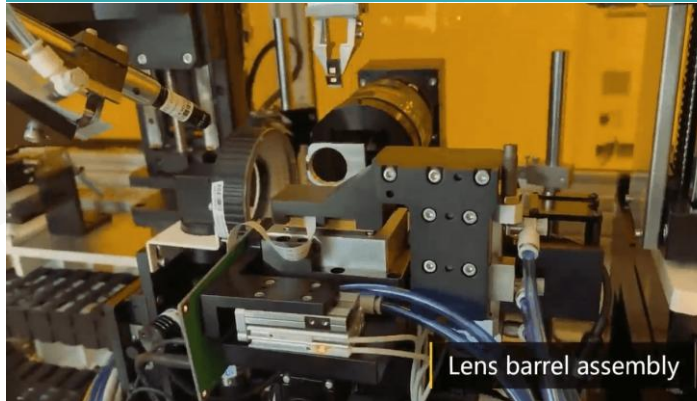
# Automation Powered Manufacturing Excellence

**FOCUSLIGHT**  
Never stop exploring

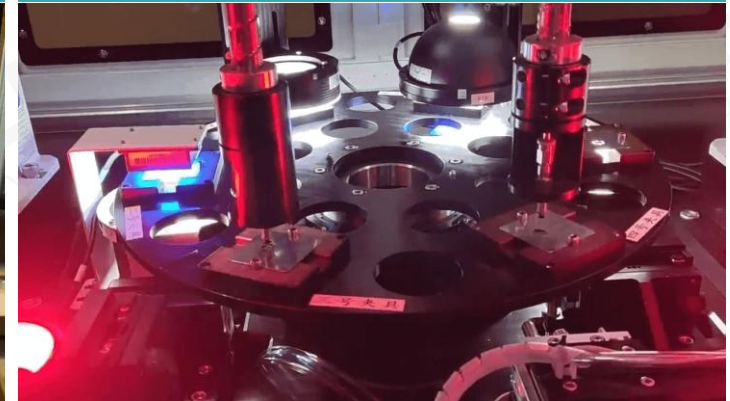
Automatic Optical Alignment



Automatic Assembly



Automated Optical Inspection



Laser Optics Production Line



LiDAR Transmitter Production Line

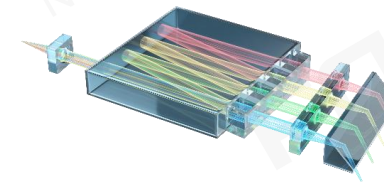
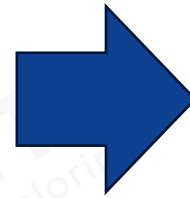
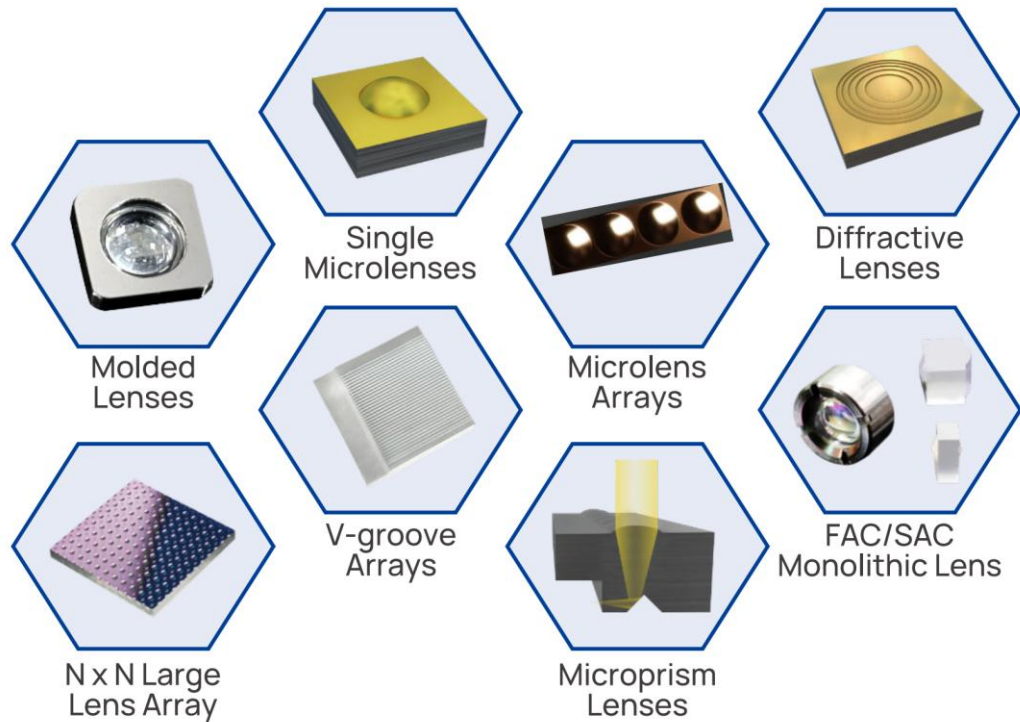


Video Link: <https://www.focuslight.com/news-events/newslst/focuslight-autonotation-powered-manufacturing-excellence/>

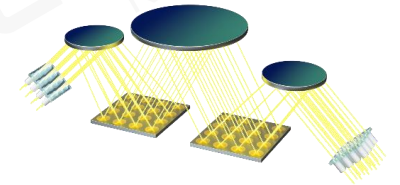
# Typical Applications

## Optical Communication

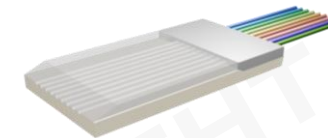
- High precision micro-optics are at the heart of optical communication systems.
- They support efficient data transfer between key optical components.



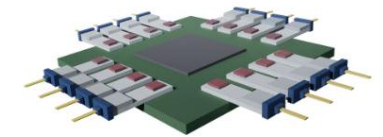
Optical Transceivers



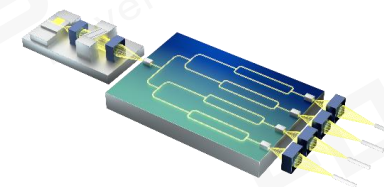
WSS / OCS



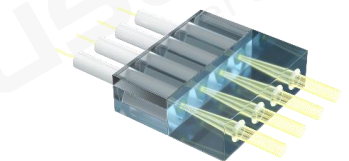
FAU



CPO



PIC

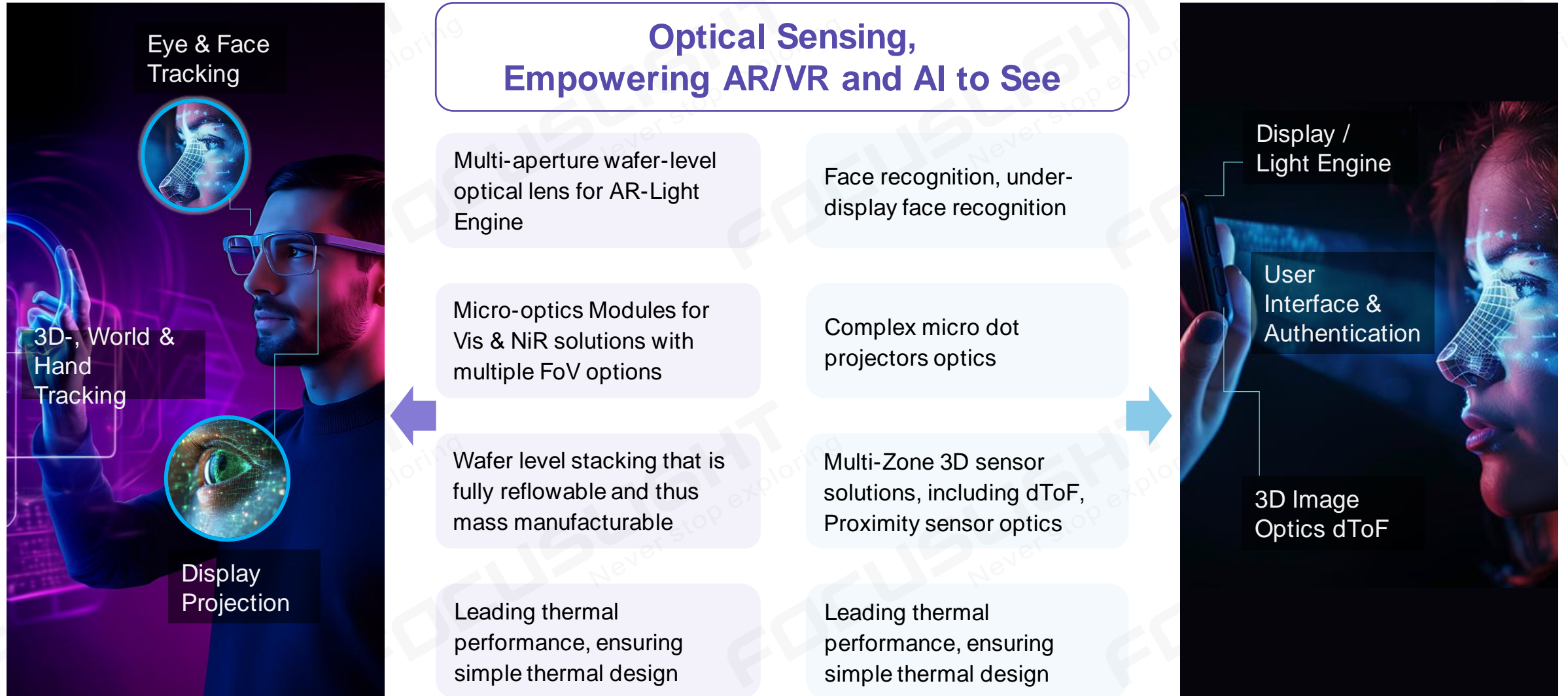


Fiber Connectors



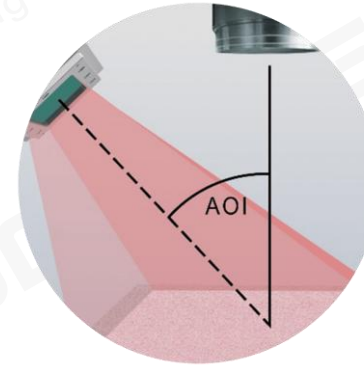
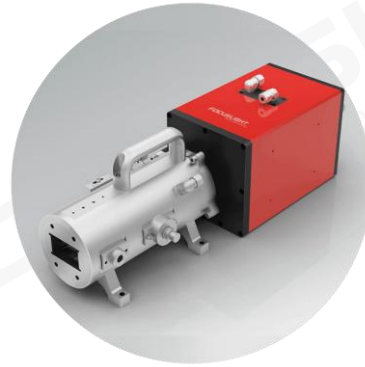
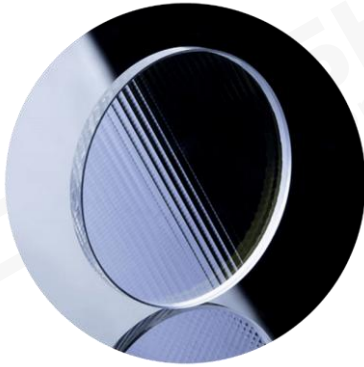
# Typical Application

## Consumer Electronics



# Typical Applications

## Semiconductor



- Beam homogenization technology powers the illumination system – key optical component in **pan-semiconductor systems**
- > 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

- Based on 976nm diode laser with adjustable beam output and >95% homogenization in energy distribution
- Ideal for **advanced chip packaging processes**, e.g. laser-assisted bonding

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

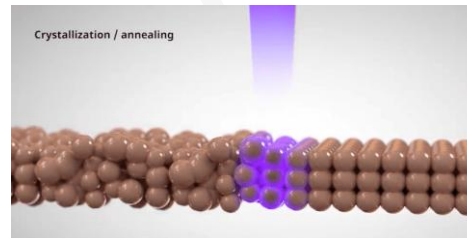
# Typical Applications

## Display

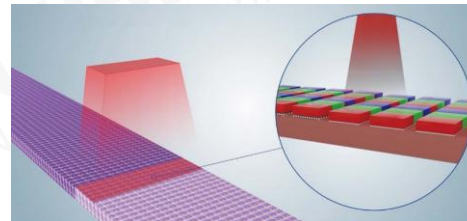


### Solid-State Laser Lift-Off (LLO) for Flexible Displays

- 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)



### Next-gen LTPS Solid-state Laser Annealing Process



### Mini and Micro LED Processing

- Laser Mass Transfer and Laser Mass Soldering
- Laser Chip Repair



# Typical Applications

## Automotive



**LiDAR**



**Smart Headlight**



**Driver Monitoring System**



**AR HUD**



**Projected Lighting**



**Optical Components**



**Laser Transmitter /  
Illumination Modules**



*Focuslight does not  
produce LiDAR /  
Lighting full system*



# Typical Applications

## Medical and Health



Hair Removal



Body Sculpting



Skin Rejuvenation



Ophthalmology



3D Interoral  
Scanning



Optical Components;  
Laser Components



Optical Solutions;  
Laser+Optics Assembly;  
Application Handpiece



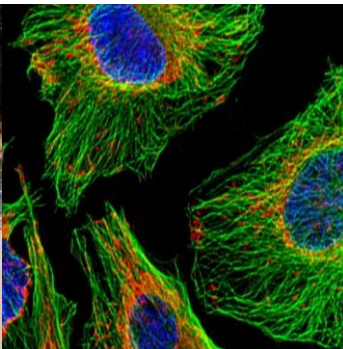
Contract Manufacturing  
Services



*Focuslight does not  
produce medical or  
health equipment*



Dermatology



Confocal  
Microscopy



Endoscopy



Sensing

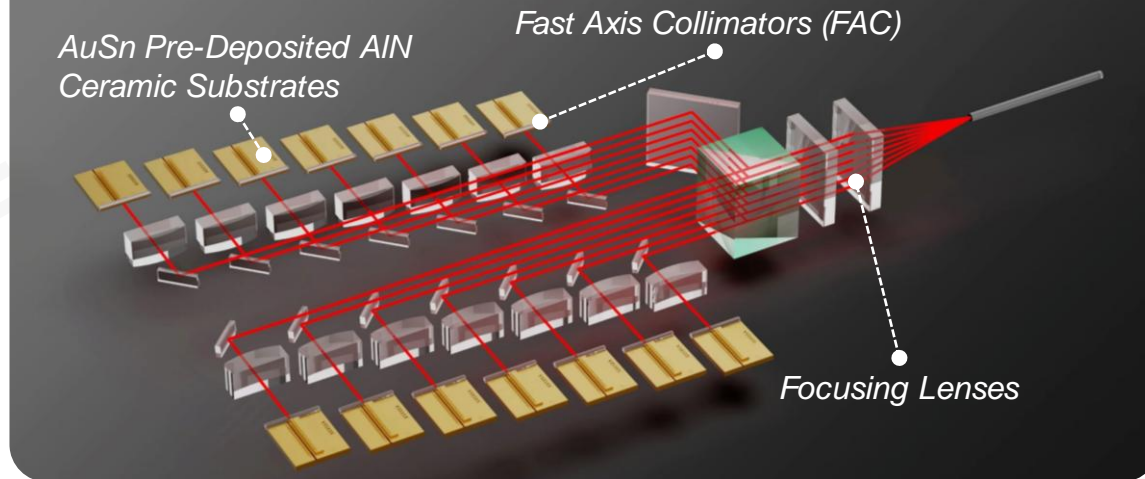


Laser Surgery

# Typical Applications

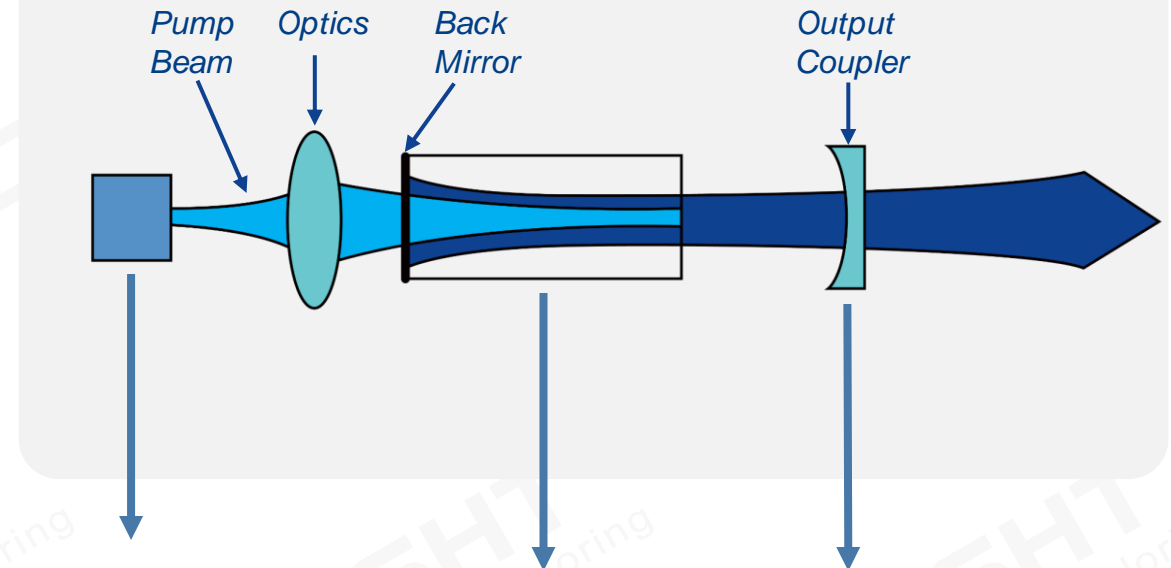
## Industrial

### 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;
- **Focusing lenses** – coupling the collimated laser beam precisely into the output fiber;

### Solid State Laser Pumping



Diode Laser  
as Pumping  
Source

+

Gain Medium

+

Optical System

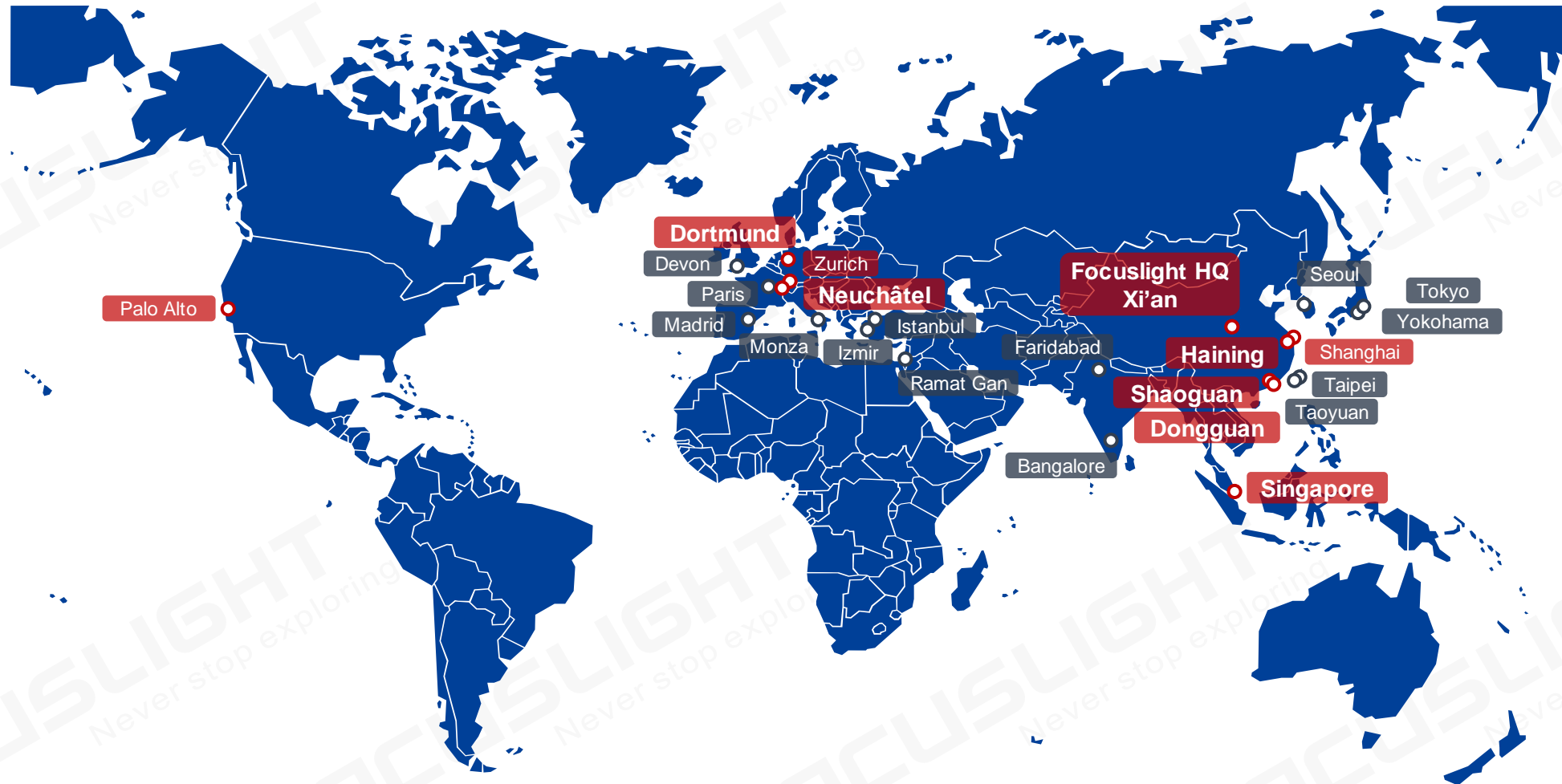
Footprint ↓

Reliability ↑

Efficiency ↑

Cost ↓

# Sales Network



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

## Your committed and reliable long-term partner in photonics components and solutions



Diode laser light source leader and beam shaping expert with strong IP position



One-stop-shop provider of micro-optics choosing from five process technologies best matching customer needs



Global photonics foundry that convert customers' ideas and designs into their own products and solutions



Total solution, versatile customization service and field service provider



Strong RDE capability, high volume production capacity and low-cost manufacturing



Financially healthy and strong financial backing from investors for long term growth



# THANK YOU



[www.focuslight.com](http://www.focuslight.com)

[www.hptg.com](http://www.hptg.com)

