

Focuslight Corporate Overview

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2025-07

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



FOCUSLIGHT

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Focuslight Corporate and Subsidiaries





Focuslight Global Operations System

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Haining, China

Hefei, China

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

Through centralized decisionmaking, integrated operations, and lean management, a highefficiency, 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





Yearly Revenue Proportion Invested into R&D ~16%





Patents Valid Worldwide >590



Facility Worldwide >48,000m²

Clean Room Worldwide >14,000m²



ISO 9001 ISO 14001 ISO 45001 IATF 16949 Certified

Corporate Management Team







Dr. Xingsheng Liu (Victor) Chairman, CEO

Research and management experience in the US, with 100+ publications, 300+ patents, 30+ invited papers internationally

Committee Member of SPIE and IEEE



Mr. Sinclair Vass Corporate SVP of International Sales & Business Development

35+ years experience in international photonics markets, having held technical, commercial and general management leadership roles at major multinational companies

Mr. Tan Chee Huo (Michael)

Corporate SVP of Business Process and IT

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

NOKIA ThermoFisher Tupperware EVIDENT

Ms. Yiping Ye (Alison) Board Director, CFO

Over 15 years management experience and multi-field business practices

In-depth understanding in LTC, IPD, intercultural cooperation and rich operational experience in market development, project operation and business Hanergy management HUAWE



Dr. Chung-En Zah СТО

30+ years of research experience in the US, with 300+ publications, 50+ patents in optoelectronics and telecommunication

IEEE Fellow, OSA Fellow, 2x R&D 100 award winner



Mr. Guowei Zhu (Gavin)

Corporate VP of Quality, President of Automotive BU

20+ years in international automotive companies, rich experience in IATF QMS and plant operations management by World Class Manufacturing (WCM) & Lean manufacturing



Mr. Ye Dai (Robert) Corporate VP of Global Sales

Excellent track record in worldwide sales, product line and business unit management leadership roles

20+ patents granted





Over 25 years of experience in wafer-level optics, optical sensor and camera packaging, SAW/BAW filter R&D, and NPD execution, with a strong focus on mastering, tooling, and wafer-level processes



OMUI OSRAM SHEPTAGON EPCOS



Corporate Management Team





Ms. Xuefeng Zhang (Jennifer)

Board Secretary, Marketing Director

14 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

ALSTOM SIEMENS



Mr. Weiyi 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





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.

WELLS FARGO citi Sabre

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 LIMO

Dr. Tobias Senn

OSRAN

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. Lucas Zhang

Global Operations Vice President

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





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. 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 and scaling high-volume production



BU: Business Unit







Products and Businesses











 Photon
 Photon
 Photon
 Photonics
 Global

 Generation
 Control
 Application
 Photonics
 Photonics

 Solutions
 Foundry

Markets





* Based on accumulated revenue data from 2025 Q1 (figures unaudited)

Value Proposition





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

Value Proposition



	Commitment to Customers	
Do what we do best Offer the best value	 Lowest cost manufacturing for high volume products Willing to take technical risk, but request customer commit market share in return 	What we don't do Take high market risk
Optimize to the extreme Achieve the best performance / quality-to- price ratio	 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 	Be greedy Be too aggressive Compete against our customers





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







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

Branding



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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.

OCON 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

901		
	Diode Laser Business Unit	
	Laser Optics Business Unit	
	Automotive Business Unit	
	Pan-Semiconductor Solutions Business Ur	nit
	Medical & Health Business Unit	
	Strategic Growth Division	
	Global Photonics Foundry Business Unit	
	Centralized Corporate Functions + Shared Service	e Center
		e Center

Products - Diode Laser Components

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Under Focuslight Brand



Advanced Materials

- AuSn Pre-Deposited AIN 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



Fiber coupler and collimator

Collimating DOE



Homogenizer and diffuser



DOE beam splitter, dot or line generator



Area Lens Arrays

Shack-Hartmann array



Pinhole array

Plano Optics and Coatings



Micro prism



Window

Products - Automotive Application Solutions



Under Focuslight Brand



Products - Pan-Semiconductor Application Solutions FDCUSLIGHT

Under Focuslight Brand



Solid-State Laser Lift-Off (LLO) System

Advanced Display Manufacturing Solutions



Solid-State Laser Annealing (SLA) System



Variable Beam Laser System (Mini and Micro LED Processing)

IC Manufacturing Processing



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



Global Photonics Foundry Services



Under Heptagon Brand



Product Validation

Work with Us – From Concept to Mass Production

% HEPTAGON

Diode Laser

Micro- and Opto-Electronic Materials, Structures, and Systems

Xingsheng Liu Wei Zhao Lingling Xiong Hui Liu

Packaging of High Power Semiconductor Lasers

🙆 Springer

Eutectic Bonding



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



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



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



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



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



Optics Manufacturing



Glass, Fused Silica, Silicon, CaF_2

With polymer on glass

With inorganic materials: Glass, Fused Silica, Silicon, CaF₂

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

FE: Frontend; BE: Backend

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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 •

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Spectrum

Polarization

Far-field / Near-field ٠

- Spatial beam profile •
- Smile effect
- Lifetime





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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 ٠
- Collimation quality
- Beam uniformity .







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





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Quality Assurance System



		Built-in Qu	ality to Me	eet Customer's Ne	eds			
Assurance of Design Quality Design Quality to Meet Customer Needs NPI / APQP						Built-in Optimal Design QualityAssurance of Service QualityRMA / Warranty		
		Mass Production		n in the second s				
Plannin	•	arch & Development Production En			FC			
		Promotion of (Consistent (Manufacture		After S	ervice	
Quality Control			Consistent Quality Assurance Activities Quality Control System of Manufacture			Quality Control Evaluation System		
 QFD Critical Character Characteristics Tolerance Chain I FMEA, FTA Design Validation Design Review 	Design	 Parameter design Process FMEA Process Capability Automatic Inspection Poka Yoke / Error P Measurement System 	on, Proof	 QA Network Supplier Quality M Production Validation Control Plan QC Circles Production Part Appendix 	ion	 QC diagnosis Quality assura Quality Auditing 		

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





Advanced Materials



Advanced Materials Manufacturing Capacity > 2M pcs / month

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Diode Laser Components



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



Laser Optics Components: Wafer-Level Simultaneous Structuring Processing



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



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



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

Laser Optics Components: Imprinting Processing





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

Automation Powered Manufacturing Excellence





Video Link: https://www.focuslight.com/news-events/newslist/focuslight-autonomation-powered-manufacturing-excellence/

Optical Communication

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



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Consumer Electronics





Optical Sensing, Empowering AR/VR and AI to See

Multi-aperture wafer-level optical lens for AR-Light Engine

Micro-optics Modules for Vis & NiR solutions with multiple FoV options

Wafer level stacking that is

fully reflowable and thus

mass manufacturable

performance, ensuring

simple thermal design

Leading thermal

Face recognition, underdisplay face recognition

Complex micro dot projectors optics

Multi-Zone 3D sensor solutions, including dToF, Proximity sensor optics

Leading thermal performance, ensuring simple thermal design Display / - Light Engine

User Interface & Authentication

3D Image Optics dToF

39

Semiconductor



- Beam homogenization technology powers the illumination system – key optical component in pansemiconductor 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 laserbased 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



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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

Automotive



LiDAR



Smart Headlight



Projected Lighting



Driver Monitoring System



AR HUD



Optical Components

Laser Transmitter / Illumination Modules



Focuslight does not produce LiDAR / Lighting full system



Medical and Health





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





Industrial



- 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



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

www.hptg.com

