

Biomedical Photonics Zone

Photonics × Biomedicine: From Core Components to Clinical Applications

Leveraging 20 Years of Expertise in the Photonics Industry to Build
a Full-chain Professional Platform for Biomedical Photonics

Biomedical Photonic Imaging Technology

Biomedical Photonic Components

Accompanying Programs:

- 2027 Biomedical Photonics Forum
- Biomedical Photonics Exhibition Area
- New Product and Innovative Solution Launches



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Mini Program

Why Biomedicine and Photonics?

Photonics technology is emerging as a key driver of innovation in life sciences and healthcare

With the rapid development of precision medicine, life sciences, and high-end medical devices, photonics technology is accelerating its integration into key fields such as disease diagnosis, medical imaging, life science research, and minimally invasive treatment. Biomedicine and photonics are accelerating their transition from the laboratory to the frontiers of **clinical practice and industrialization**.

The integrated ecosystem of "Photonics + Biomedicine" is an important extension of the industry landscape

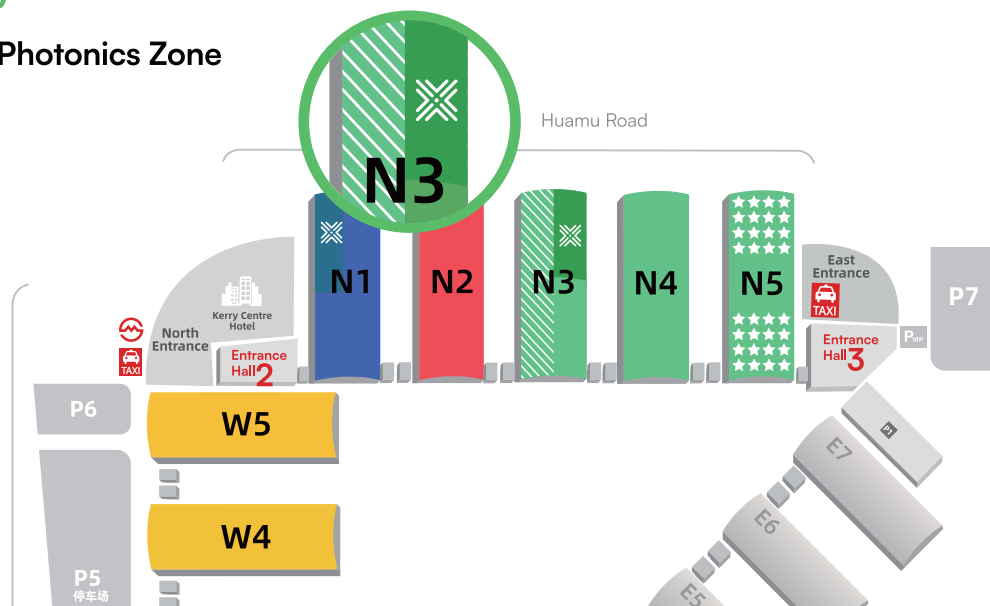
Every breakthrough in biomedicine is underpinned by photonics technology — CMOS medical detectors enable the acquisition of weak biological signals, medical lasers empower minimally invasive precision diagnosis and treatment, and precision optical components such as endoscope lenses and medical-grade optical filters ensure the stability of imaging systems, broadening the scope of clinical and research applications.

With over two decades of expertise in lasers and optoelectronics, optical materials, precision optical processing, optoelectronic detection, and core components, Laser World of Photonics Shanghai has cultivated deep industrial roots that form the essential infrastructure of the biomedical photonics industry chain — from upstream foundational materials such as optical crystals and optical glass, to midstream core optoelectronic imaging components including lasers, detectors, and endoscope lenses. The exhibition's extensive industrial heritage and the Biomedical Photonics Zone together create a complete bottom-up support chain.

Here, photonics and biomedicine are not a linear upstream-downstream relationship — they form an integrated ecosystem. From core medical photonic components and biomedical imaging systems to clinical diagnostic solutions, the entire chain converges in the Biomedical Photonics Zone.

Booth Layout

Biomedical Photonics Zone



Zone Coverage

The Zone focuses on showcasing biomedical photonics technologies and products, covering two major sectors: biomedical photonic imaging technology



Biomedical Photonic Imaging Technology

- Fluorescence Imaging
- Bioluminescence Imaging
- Photoacoustic Imaging
- Optical Coherence Tomography (OCT)
- Imaging Systems



Biomedical Photonic Components

- CMOS Detectors
- Medical Lasers
- Optical Filters
- Optoelectronic Detectors
- Endoscope Lenses
- Integrating Spheres

Past Exhibitors

THORLABS

mks
Newport

HAMAMATSU
PHOTON IS OUR BUSINESS

JCOPTIX
晶萃光学



SITUOLI



*Listed in no particular order.

Accompanying Biomedical Photonics Events

As precision diagnosis and treatment and non-invasive intervention become clinical imperatives, biomedical photonics stands at a critical turning point transitioning from the laboratory to the operating table. The accompanying events at this exhibition will bring together pioneers from research, clinical practice, and industry to confront clinical pain points and accelerate the translation of cutting-edge optoelectronic technologies into deployable medical solutions.



2027 Biomedical Photonics Forum

The 2026 Biomedical Photonics Forum featured a **1.5-day** program, comprising **2 thematic sessions**, **14 high-quality keynote presentations**, and **5 new product roadshows**, achieving an overall satisfaction rate of **95%**.

In 2027, the forum will further expand the breadth and depth of its topics, bringing together renowned experts, clinical physician representatives, and core component manufacturers in the field. Through the synergy of the professional forum and new product roadshows, the forum aims to foster forward-looking perspectives and pragmatic dialogue on hot topics in biomedical photonics.

Forum keywords

Laser Precision Treatment **Biomedical Optical Imaging** Photoacoustic Imaging
Laser Ophthalmic Surgery **Hyperspectral Imaging** Fluorescence Imaging
Optical Coherence Tomography (OCT) Clinical Translation of Photoacoustics
Photodynamic Therapy Photoimmunotherapy Optical Diagnostics
Tumor-targeted Phototherapy Medical Instruments **Microscopy Imaging Platforms**



Biomedical Photonics Exhibition Area

In 2026, the Biomedical Photonics Exhibition Area brought together more than 10 research institutions and companies to showcase their latest achievements.

In 2027, the exhibition zone will continue to upgrade, bringing together research institutions and specialized companies to present the latest achievements from cutting-edge technologies to clinical devices. A dedicated networking and discussion area will be set up on-site, providing a platform for in-depth cross-sector dialogue between clinical medicine and medical device enterprises.



Why Join the Biomedical Photonics Zone?

Five Core Value Propositions — A Comprehensive Showcase of Commercialization Outcomes and Innovative Value in Biomedical Photonics



Photonics Industry Heritage — The Core Technology Foundation for Biomedical Innovation

With over two decades of deep engagement in the photonics industry, Laser World of Photonics Shanghai recognizes that photonics technology serves as a critical foundation for modern biomedicine — from CMOS and optoelectronic detectors to medical lasers, optical filters, and medical imaging technologies such as OCT, fluorescence imaging, and photoacoustic imaging. The industrial resources gathered through the exhibition cover the key segments of the biomedical photonics industry chain, providing full-chain industrial support for medical photonics technologies to transition from laboratory R&D to clinical device mass production.



International Brand Endorsement — Backed by the Biophotonics Zone of German Parent Exhibition (Laser World of Photonics Munich)

The German parent exhibition features a dedicated Biophotonics sector for medical optics, delivering cutting-edge technology insights, industrial resources, and international brand endorsement to the global biomedical photonics community. Leveraging this global network, the Biomedical Photonics Zone connects international delegates with cutting-edge technology trends, offering enterprises a gateway to global perspectives and resources.



Precision Buyer Assurance — 200,000+ Database + Dedicated Invitations + Business Matching

Leveraging a database of more than 200,000 professional visitors accumulated by Laser World of Photonics Shanghai over more than two decades, the Zone features an dedicated invitation system to precisely reach medical device R&D leaders, hospital procurement decision-makers, and research group heads, ensuring high-precision, high-match, and high-intent quality visitor acquisition.



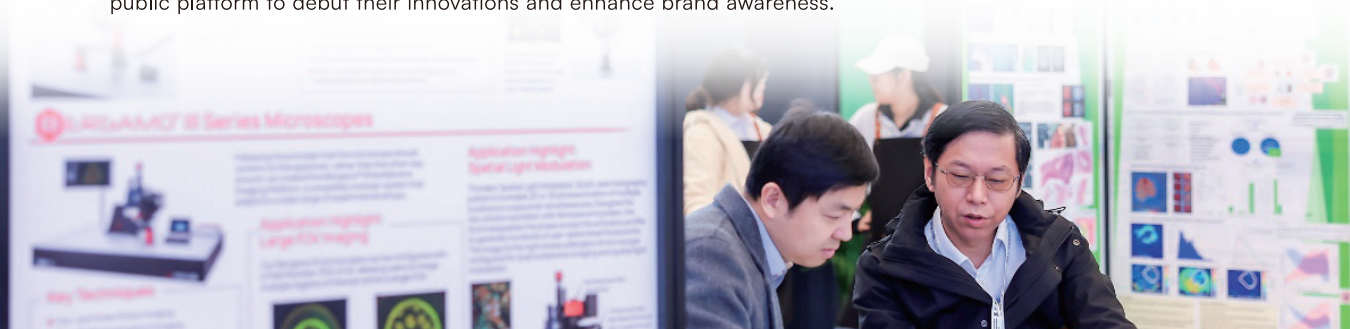
Cutting-Edge Technology Showcase — Exclusive Exhibition Area for Innovative Products in Biomedical Photonics

The Zone focuses on cutting-edge innovative technologies in biomedical photonics, creating an exclusive exhibition area that presents the latest achievements from advanced technology to clinical applications. It provides a premium platform for showcasing your innovative products to the industry, accelerating the journey of technological achievements from the laboratory to clinical practice.



Accompanying Programs + New Product Launches — Brand Value Upgrade Across Every Dimension

The concurrent biomedical photonics forum focuses on biomedical photonic imaging technologies, biomedical photonic components, optical diagnostics, and clinical translation of photoacoustics, directly addressing clinical pain points and accelerating the translation of frontier optoelectronic technologies into actionable medical solutions. The Zone also features a dedicated new product launch stage, providing biomedical photonics companies with a public platform to debut their innovations and enhance brand awareness.



Join the Biomedical Photonics Zone

Co-creating the "Photonics × Biomedicine" Integrated Industrial Ecosystem Platform

Invited Visitors + X Match Precision Business Matching

Visitors from the medical and pharmaceutical industries represent a high-value audience group with concentrated demands and strong conversion intent. In 2027, the Zone will extend targeted invitations to biomedical and pharmaceutical companies, university research institutes, and clinical experts from top-tier hospitals, further consolidating and amplifying this audience group. They come with real research needs, procurement plans, and technology translation intentions, and will connect precisely with your booth within the Zone.

Meanwhile, the X Match business matching system will screen and invite high-intent buyers from the application end of the biomedical photonics industry, precisely delivering quality visitors to your booth.

Previous Quality Visitors (Partial List)

Medical / Biotech / Pharma

- Edwards Lifesciences
- Eyebright Medical
- Beckman Coulter Biotechnology (Suzhou) Co., Ltd.
- Philips Health Technology (China) Co., Ltd.
- GenScript Biotech Corporation
- Shanghai United Imaging Medical Technology Co., Ltd.
- Porton Pharma Solutions
- Fosun Pharma
- Triastek (Nanjing) Pharmaceutical Technology Co., Ltd.
- Merck
- WuXi STA Co., Ltd.
- Roche
- MedicalSystem Biotechnology Co., Ltd.
- Vishee
- Johnson & Johnson Medical (Shanghai/Suzhou) Limited
- Haier Biomedical
- Raykeen
- Shanghai Pharmaceuticals
- Zhejiang Jingxin Pharmaceutical Co., Ltd.,
- Bayer Healthcare Company Limited
- Qilu Pharmaceutical Co., Ltd.,
- Shanghai No. 15 Pharmaceutical Factory
- Thermo Fisher Scientific (Shanghai) Instrument Co., Ltd.
- Shinva Medical Instrument Co., Ltd.
- Shanghai Medicilon Inc.
- Rendu Biotechnology
- Shanghai Zj Bio-Tech Co., Ltd
- Sonoscape Medical Corp.
- Autobio
- Sartorius
- Beijing Genome Bio-technology Co.,Ltd.
- Pharsun Pharmaceutical Biotechnology (Shanghai) Co., Ltd
- Asymchem Labs.
- Novartis
- MicroPort
- WuXi Biologics
- GeneMind
- Hengrui Pharma
- BeOne
- Innovent Biologics
- Junshi Biosciences
- Tigermed

Colleges/Universities

- Peking University
- Yangtze Delta Institute of Optoelectronics, Peking University
- Beihang University
- Beijing Institute of Technology
- BIT Chongqing Institute of Microelectronics and Microsystems
- Beijing University of Posts and Telecommunications
- Dalian University of Technology
- University of Electronic Science and Technology of China
- Donghua University
- Southeast University
- University of Toronto
- Fudan University
- Harbin Engineering University
- Harbin Institute of Technology
- Hainan University
- College of Physics and Optoelectronic Engineering, Hainan University
- Korea Advanced Institute of Science and Technology
- The University of Manchester
- Jinan University
- Technical University of Munich
- University of Southampton
- Nanjing University of Science and Technology
- University of Oxford
- Shanghai Jiao Tong University
- School of Biomedical Engineering, Shanghai Jiao Tong University
- Wannan Medical College
- Xidian University
- Northwestern Polytechnical University
- University of Science and Technology of China

Research Institutes

- DICP
- LMU Klinikum
- Shanghai Sixth People's Hospital
- Shanghai Institute for Biomedical and Pharmaceutical Technologies (SIBPT)
- Tongji Hospital
- Wuhan National Research Center for Optoelectronics
- Zhejiang Provincial People's Hospital
- Institute of Biophysics, Chinese Academy of Sciences (IBP)
- Institute of Optics and Electronics, Chinese Academy of Sciences (IOE CAS)
- SIBET
- XIOPM
- Institute of Semiconductors, CAS

*In no particular order.



Exhibition Benefits



Free participation in
X Match business
matchmaking



New product launch
presentation slots



Omni-channel promotion
and exposure
(News/WeChat/Email/Media)

