

APPLICATION OF PHOTONICS TECHNOLOGY IN THE MEDICAL INDUSTRY

Asia Photonics Expo (APE), a world's leading comprehensive photonics platform, will be held at the Sands Expo and Convention Centre in Singapore from 26 to 28 February 2025. It focuses on cutting-edge technologies and emerging markets in the fields of optical communication, optics, laser, infrared, sensing, and display, including **optical lenses and modules, optical materials and components, lasers, etc.** It serves as a one-stop platform for professionals in the medical industry to seek upstream and downstream products, innovative technologies, engage in trade negotiations, and facilitate procurement.

Exhibit Profile

Core Materials and Components: Optical lenses and modules, lasers, lenses, filters, optical materials, etc.

Medical Instruments and Equipment: Microscopes, optoelectronic devices, detection/treatment instruments, infrared thermal imaging, etc.

Production and Processing Equipment: Laser equipment, automation equipment, semiconductor equipment, optical coating equipment, etc.

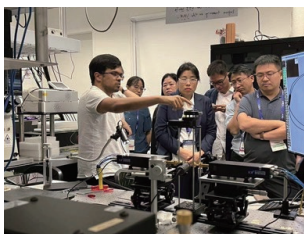


CONCURRENT ACTIVITIES



Gala Dinner

Over 120 top-level executives of our exhibitors and partners attended the gala dinner and took the opportunity to engage in high-level discussions, exchange ideas, and explore potential collaborations.



Site Tour

APE co-organized with Singapore University of Technology and Design and LUX Photonics Consortium to curate a site tour which attracted over 40 companies to join, aiming to link between academia and industry.



Happy Hours

It will be held at VIP lounge to facilitate the networking and collaboration between exhibitors and VIP visitors.

CONCURRENT CONFERENCES

Application Forum

A series of application programmes will be dedicated to showcasing the application fields within manufacturing, medical, consumer electronics, etc.

Industry Forum

Explore the cutting-edge optoelectronic technology and gain in-depth insights into its latest developments across various photonics application fields, thereby driving innovation in upstream and downstream products.



BOOTH APPLICATION



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*Only part of exhibits, listed in no order.

Production & Manufacturing

- Laser Equipment**
 - Laser Cutting Equipment
 - Laser Solder Ball Jet Solder Machine
 - UAI-Station Laser Soldering Machine
 - Intelligent Laser Welding System
 - Mini LED Display Module Laser Repair Special Machine
 - UV Laser Marking Machine
 - Laser Etching Machine
 - Picosecond Light Guide Arm
- Robot**
 - SMR Mobile Composite Robot
 - Intelligent Robot Polishing System
 - Industrial Robot
 - Parallel Six-Degree-of-Freedom Robot
 - Non-Invasive Health Check Robot

- Filter**
 - Beauty Machine Filter
 - Long-wave Pass Filter
 - Fluorescence Biochemical Analysis Filter
 - Raman Filter
 - Biomedical Engineering Filter
 - Trap Filter
- Lens**
 - Micro Lens
 - Endoscopic Lens
 - Infrared Lens
 - Imaging Lens
 - Fresnel Lens - LED Lens

- Optical Lens**
 - Endoscope Lens
 - Medical Lens
 - Infrared Thermal Imaging Lens
 - Sensor Water
 - Ultraviolet Lens
 - Water Lens
 - Small-sized Lens

- Endoscope/Module**
 - Micro Medical Endoscope Module
 - Endoscope Fluorescence Imaging Rigid Medical Endoscope
 - Light Source Module
 - 4K Endoscope Optical Module
 - Binocular Near-Eye Display Optical Engine Module

- Automation/Semiconductor Equipment**
 - Fully Automatic High Precision Eutectic Machine
 - Semicontductor Cutting Equipment
 - Fully Automatic Multifunctional Mounter
 - Automatic Dispensing Mounter
 - Online Temperature Monitoring Semicontductor Heating System
 - Grinding Machine
 - Glue Dispenser
 - Soldering Equipment

- Medical Fiber**
 - Ho:YAG laser fiber
 - Disposable Intraocular Laser Fiber
 - In Vitro Diagnostic Instrument Fiber
 - Detection Fiber
- UV**
 - UV Chip
 - UV-C Sterilization LED Bead
 - Deep Ultraviolet LED Chip
 - Ultraviolet Light-Emitting Diode

- Optical Material & Component**
 - Laser Beauty Instrument
 - Sapphire Light Guide Block
 - Quartz Glass Beauty Instrument Accessory Filter Tube
 - Medical Liquid Flow Path and Optical Window
 - Light-Guiding Crystal
 - Sapphire Crystal Rod
 - Medical Laser Fiber
 - Medical Health Product
 - Ultra-Precision Optical Component

- Light Source**
 - UV LED Surface Light Source
 - Ultra-Wide Band Light Source
 - White Laser Series Light Source
 - Line Laser Light Source
 - Multi-Channel High-Brightness LED Light Source
 - Point Light Source
 - High-Power White Light Source
 - Infrared Light Source
 - Full Spectrum Light Source
 - Collimated LED Light Source

- Measuring & Test Instrument**
 - Smart AI 3D Facial Skin Detector
 - Multifunctional Skin Polarized Laser Detection Equipment
 - Electrical Safety and Light Safety Detection for Medical Product
 - Endoscope-Specific Optical Transfer Function Measurement Instrument
 - 3D Optical Profilometer
 - Medical Endoscope Testing System
 - Medical Freeform Surface Measurement System
 - 3D Optical Surface Shape Measurement System

- 3D Vision**
 - 1Tof 3D Camera
 - Passive Snapshot Monocular 3D Camera
 - High-Precision RGBD Camera
 - 3D Binocular Stereoscopic Vision Module
- Sensor**
 - UV Sensor
 - Endoscope CMOS Image Sensor
 - Medical Force (Contact Force) Sensor
 - 600-Megapixel Image Sensor
 - Ultra-low Power Fusion Vision Sensor

- Laser Technology**
 - Lasers**
 - Medical Lasers
 - Dental Soft Tissue CO2 Lasers
 - Energy-Adjustable Microchip Lasers
 - Fiber-Coupled Lasers
 - Diode
 - Yellow Lasers
 - Multi-Wavelength Lasers
 - Medical Lasers
 - Picosecond Infrared Lasers
 - Laser Chip**
 - High-Power Semiconductor Laser Chip
 - VCSEL Laser Chip
 - High-Power Semiconductor Laser Bar
 - Laser Module**
 - Free-space RGB Laser Module
 - Medical Semiconductor Fiber Laser Coupling Module
 - Mid to Far-Infrared Laser Module

- Vacuum Coating Equipment**
 - Vacuum Coating Machine
 - High Precision Electron Beam Evaporation Optical Coating Machine
 - IBS Coating Machine
 - Vacuum Coating Solution
 - Optical Lens Full-Function High Precision Automatic Assembly Machine
 - AA Precision Assembly Machine
 - High-Definition Wide-Angle Lens Automatic Assembly Equipment
 - Lens Compound Assembly Machine

- Medical Instrument/Equipment**
 - Medical Monitoring/Detection**
 - Health Check Robot
 - Facial Skin Detector
 - Light Safety Detection Equipment
 - Optoelectronic Equipment**
 - Dot Matrix Laser Treatment System
 - Multi-Frequency Anti-Aging System
 - Photodynamic Therapy Machine
 - LED Phototherapy Device
 - Microscope/Spectral Imaging**
 - Microscope
 - Fluorescence Imaging System
 - Hyperspectral Imaging Camera
 - Chip-Level Spectrometer
 - Infrared Spectrometer
 - Spectrum Imaging Instrument

- Infrared Technology**
 - Human Body Temperature Sensing Far Infrared Lens
 - Single-point Integrated Infrared Sensor Chip
 - Thermal Imaging Far Infrared Lens Module
 - Near-Infrared II Fluorescence Imager
 - Laser-Pumped Terahertz Detection System
- Display Technology**
 - 65" 8K Printed OLED Display
 - Micro-LED Micro Display
 - Nicro Silicon-Based Display
 - Silicon-Based OLED Mini Display

Endoscopes/Medical Equipment/Medical Beauty Equipment/Medical Robot



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