

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.

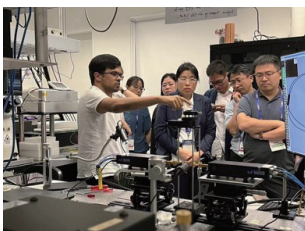


CONCURRENT ACTIVITIES



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



APE AT A GLANCE

*Only part of exhibits, listed in no order.

Production & Manufacturing

Endoscope/Module

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

Optical Lens

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

Lens

- Micro Lens
- Endoscopic Lens
- Infrared Lens
- Imaging Lens
- Fresnel Lens - LED Lens

Filter

- Beauty Machine Filter
- Long-wave Pass Filter
- Fluorescence Biochemical Analysis Filter
- Imaging Filter
- Fluorescence Filter
- Biomedical Engineering Filter
- Trap Filter

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

Optical Material & Component

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

UV

- UV Chip
- UVC Sterilization LED Bead
- Deep Ultraviolet LED Chip
- Ultraviolet Light-Emitting Diode

Medical Fiber

- Ho:YAG laser fiber
- Disposable Intracocular Laser Fiber
- In Vitro Diagnostic Instrument Fiber
- Detection Fiber

Laser Technology

Lasers

- Medical Lasers
- Dental Soft Tissue CO₂ Lasers
- Energy-Adjustable Microchip Lasers
- Fiber-Coupled Lasers
- Diode
- Yellow Lasers
- Multi-Wavelength Medical Lasers
- Picosecond Infrared Lasers

Laser Chip

- High-Power Semiconductor Laser Chip
- VCSEL Laser Chip
- High-Power Semiconductor Laser Bar

Laser Module

- Free-space RDB Laser Module
- Medical Semiconductor Fiber Laser Coupling Module
- Mid to Far-Infrared Laser Module

Sensor

- UV Sensor
- Endoscope CMOS Image Sensor
- Medical Force (Contact Force) Sensor
- 600-Megapixel Image Sensor
- Ultra-Low Power Fusion Vision Sensor

3D Vision

- 17of 3D Camera
- Passive Snapshot Monocular 3D Camera
- High-Precision RGBD Camera
- 3D Binocular Stereoscopic Vision Module

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
- Micro Silicon-Based Display
- Silicon-Based OLED Mini Display

Medical Instrument/Equipment

Medical Monitoring/Detection

- Health Check Robot
- Facial Skin Detector
- Light Safety Detection Equipment
- Laser 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

Laser Equipment

- Laser Cutting Equipment
- Laser Solder Ball Jet Solder Machine
- Dual-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

Automation/Semiconductor Equipment

- Fully Automatic High Precision Etrectic Machine
- Semiconductor Heating Machine
- Fully Automatic Multifunctional Moulder
- Automatic Dispensing Moulder
- Online Temperature Monitoring Semiconductor Heating System
- Grinding Machine
- Glue Dispenser
- Soldering Equipment

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 Freeform Surface Measurement System
- 3D Optical Surface Shape Measurement System

Vacuum Coating Equipment

- Vacuum Coating Machine
- High Precision Electron Beam Evaporation Optical Coating Machine
- IBS Coating Machine
- Vacuum Coating Solution

Lens Assembly Equipment

- 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

Endoscopes/Medical Equipment/Medical Beauty Equipment/Medical Robot



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APE 2024 POST SHOW REPORT