

APPLICATION OF PHOTONICS TECHNOLOGY IN THE **ADVANCED MANUFACTURING** 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 **sensors, industrial cameras, lasers, semiconductor equipment, and laser equipment**, etc. It serves as a one-stop platform for professionals in the advanced manufacturing industry to seek upstream and downstream products, innovative technologies, engage in trade negotiations, and facilitate procurement.

Exhibit Profile

Manufacturing Equipment: Laser processing equipment, semiconductor equipment, automation equipment, optical processing equipment, optical coating equipment, etc.

Detection and Testing Instruments: Spectrometers, detection and measurement instruments, interferometers, microscopes, etc.

Core Components: Sensors, optical lenses and modules, industrial cameras, lasers, mechanical structural components, controllers, etc.

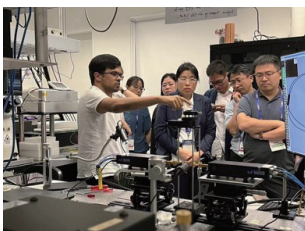


CONCURRENT ACTIVITIES



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.



Key Material

Coating Material

- Evaporation Coating Material
- Optical Coating Material
- Silicon Dioxide Coating Material

Optical Lens

- Spherical Glass Lens
- WLG Lens
- High-power Laser Lens

Optical Filter

- Intelligent Manufacturing Application Filter
- Precision Optical Filter
- Multispectral Filter

Sensor

- Infrared Thermopile Array Sensor
- Pressure Sensor
- Six-axis Force Sensor

- Position Sensor
- 3D Measuring Sensor
- Fiber Optic Gyroscope Sensor

- CMOS Image Sensor
- Displacement Sensor
- Dust Sensor

Mechanical/CNC Device

Mechanical Part

- Optomechanical Part
- Mechanical Bearing Platform
- Optomechanical System

Guide Rail

- Linear Guideway
- Annular Guideway
- Linear Rolling Rail

Motor

- Linear Motor
- Stepper Motor
- Ultra-Micro Motor

Galvanometer

- 2D Scanning Galvanometer
- Laser Galvanometer
- Laser Galvanometer Processing System

Controller

- Gas Mass Flow Controller
- UV LED Point Light Source Controller

Screw

- Panel Screw
- Three-piece Screw
- Precision Screw

Lens Module/Industrial Camera

Optical Lens

- Industrial Lens
- Vision Lens
- Machine Vision Lens

Optical Module

- Binocular Camera Module
- Wide-angle Camera Lens and Module
- 3D Structured Light Vision Module

Industrial Camera

- Smart Industrial Camera
- Depth Camera
- Industrial Inspection Camera

AR/VR

- XR-ONE All-in-One Machine
- AR Glasses
- Head-mounted AR

Optical Equipment/Instrument

Coating Equipment

- Optical Vacuum Coating Machine
- Atomic Layer Deposition Coating Machine
- Sputtering Coating Machine

Optical Processing Equipment

- Ultra-precision Processing of Optical Component
- Precision Optical Grinding Machine
- Precision Double-sided Plane Grinding Machine

Camera Production Equipment

- Lens Assembly Machine
- Unmanned Intelligent Whole-line
- AA Workstation Assembly Machine

Inspection Equipment

- Ultra-high Precision Inspection Solutions
- AOI Optical Inspection Machine
- Complete Machine Inspection Solution

Spectrometer

- Near-infrared Spectrometer
- High-precision Array Spectrometer
- Optical Frequency Spectrometer

Interferometer

- High-precision Interferometer
- Laser Interferometer
- Plane Interferometer

Measuring Instrument

- 3D Optical Profilometer
- Automated Center Deviation Measuring Instrument
- Optical Measuring Instrument

Microscopes

- Measuring Microscope
- 3D Video Microscope
- Super Depth-of-field Video Microscope

Lasers/Servos/Interferometers

Lasers

- Fiber Lasers
- Semiconductor Lasers
- High-power Lasers

Lasers

- Red/Green/Blue Lasers
- High-energy Femtosecond Lasers
- Industrial-grade Ultraviolet Lasers

Servos

- Photoelectric Servo Motor
- Vacuum Servo Motor
- Motor Servo

Drivers

- Micro Servo Driver
- Stepper Driver
- Piezoelectric Ceramic Driver

Semiconductor Equipment

Photolithography Machine

- Laser Direct Imaging (LDI) Photolithography System
- Automatic Double-Sided Photolithography Machine

Photolithography Machine

- Proximity Contact Photolithography Machine
- High-Resolution Ultraviolet Photolithography Machine

Manufacturing Equipment

- Annealing / Oxidation Furnace
- Thin Film Deposition Equipment
- Polishing/Washing Machine

Packaging and Testing Equipment

- Coupling Machine/Bonder
- Dicing Machine/Sorter
- Thinning Machine/Tape Laminate

Display Equipment

- Mass Transfer Equipment
- Mass Welding Equipment
- Mass Bonding Equipment



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APE 2024 POST SHOW REPORT