

APPLICATION OF PHOTONICS TECHNOLOGY IN THE LIGHTING/DISPLAYS 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 **materials/components, chips/modules, display panels, display equipment**. It serves as a one-stop platform for professionals in the lighting/displays industry to seek upstream and downstream products, innovative technologies, engage in trade negotiations, and facilitate procurement.

Exhibit Profile

Materials: Glass, Ceramics, Plastics, Crystals, Target Materials, Coating Materials, etc.

Components: Diodes, Sensors, Light Source, LED Chips or LED Beads, etc.

Chips/Modules: Micro-LED Display Chips, Mini Display Chips, LED Chips, Laser Chips, etc.

Displays: Display Panels, Display Screens, etc.

AR/VR: All-in-One Devices, Optical Modules, etc.

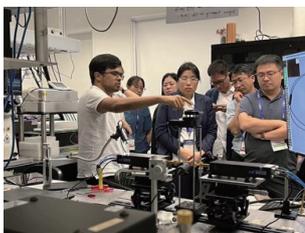
Display Equipment: Semiconductor Equipment, Testing and Measurement Equipment, Laser Equipment, Optical Inspection Equipment, etc.

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

Application of Photonics Technology in the Lighting/Displays Industry

26-28 February 2025
Sands Expo and Convention
Centre (Marina Bay Sands) L1

*Only part of exhibits, listed in no order.

Material/Component

- | | | | |
|-----------------|---|---|--|
| Material | <ul style="list-style-type: none"> •Glass •Ceramic •Plastic •Crystal •Copper, Tungsten, Aluminum •Neodymium-Iron-Boron Magnet | <ul style="list-style-type: none"> •Substrate •Target Material •Photoreist •Coating •Encapsulation Material •Heat Dissipation Accessories | <ul style="list-style-type: none"> •Grinding Wheel •Luminescent Material •Coating Material •Dielectric Material •Polishing Material •Thermal Conductive Material |
|-----------------|---|---|--|

Component

- | | | | |
|---|--|--|--|
| Diode | Sensor | Light Source | LED Bead |
| <ul style="list-style-type: none"> •Semiconductor Laser Diode •Red/Green/Blue Laser Diode •Photodiode •Laser Diode Module | <ul style="list-style-type: none"> •Range Sensor •Micro Spectral Sensor •TO-Can Sensor •Intelligent Electrostatic Sensor | <ul style="list-style-type: none"> •Full Spectrum Light Source •LED Light Source •White Laser Series Light Source •Transmissive Light Source | <ul style="list-style-type: none"> •UV LED Bead |



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APE 2024 POST SHOW REPORT

Chip/Module

- | | |
|---|--|
| <ul style="list-style-type: none"> •Micro-LED Display Chip •Mini Display Chip •LED Chip •Laser Chip | <ul style="list-style-type: none"> •Ground Projection Small Lighting Module •Laser Lighting Module •Projector Lens Module •Semiconductor Laser Module •Laser Engraving Module |
|---|--|

Display

- | | |
|---|---|
| Display Terminal | Micro Display |
| <ul style="list-style-type: none"> •Foldable Phone Screen •LCD Variable Curve Display •Live Streaming Display Terminal •Gaming Laptop Display •Binocular Waveguide AR Glasses | <ul style="list-style-type: none"> •OLED Micro Display •Micro-LED Display •Micro-Led Micro Display |
| Display | Panel |
| <ul style="list-style-type: none"> •Movie Glasses •Naked-eye 3D Holographic Display •Flexible OLED In-vehicle HMI •Mini LED In-vehicle Display •Surgical Navigation and Positioning System | <ul style="list-style-type: none"> •Micro/Mini-LED Driven Backplane •TFT (AM) Driven Backplane •Passive (PM) Driven Backplane •Mini LED Backlight Copper Clad Board |

AR/VR

- | | |
|--|--|
| All-in-One | Optical Module |
| <ul style="list-style-type: none"> •Perspective VR All-in-One Solution •Binocular Split AR Solution •HD Head-mounted 3D Display •AR/VR Glasses •Industrial AR Smart Glasses •AR Holographic Smart Swim Goggles | <ul style="list-style-type: none"> •AR/VR Optical Module •Array Waveguide Module •Waveguide Near-eye Display Module •Monocular Near-eye Display Optical Module •VR Pancake Optical Module •AR Diffractive Waveguide •Array Waveguide Modules with One-dimensional / Two-dimensional Grating |

Display Equipment

- | | | | |
|--|--|---|---|
| Semiconductor Equipment | Measuring & Test Instrument | Laser Equipment/Automation | Optical Inspection Equipment |
| <ul style="list-style-type: none"> •Inkjet Printing Complete Verification Equipment •Micro LED Wafer Laser Detachment Equipment •Mini LED Wafer Laser Stealth Cutting Equipment •Mini LED Mass Welding Equipment •Micro LED Mass Bonding Equipment •Rotary Dual-plate Screen Printing Machine •Plasma Coating Machine •In-vehicle Screen Hard-to-Hard Bonding Equipment •High Precision Labeling Machine •Fully Automatic Drawer-type Debubler | <ul style="list-style-type: none"> •X-ray Photoelectron Spectrometer •One-click Graphical Measurement Instrument •Virtual Distance Measurement Instrument •Rapid Ultra-high Resolution Two-photon Microscope •Spectral Brightness and Colorimeter | <ul style="list-style-type: none"> •Mini LED Display Module Laser Repair Special Machine •Laser Etching/Marking/Welding Machine •Programmable Logic Controller •Three-axis Scanning and Control System •Three-dimensional Five-axis Machining System •Mechanical Head •Bened Transform •Slide Table | <ul style="list-style-type: none"> •Flash Measurement Instrument •Spectrometer •Phase Difference Tester •Stress Birefringence Detection Equipment |
| Vacuum Coating Machine | | | |
| <ul style="list-style-type: none"> •Electro-fluid-dynamic Spray Coating Equipment •Vacuum Coating Equipment •Evaporation Coating Machine | | | |