

ASIA PHOTONICS EXPO 26-28 February 2025

Sands Expo and Convention Centre, Singapore

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 ir upstream and downstream products.







REGISTER AS A VISITOR



Application of Photonics Technology in the Lighting/Displays Industry

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

*Only part of exhibits, listed in no order

Material/Component

Material

•Glass

 Plastic Ceramic

 Neodymium-Iron-Aluminum Copper, Tungsten, Crystal

Accessories Heat Dissipation Encapsulation Material Coating Photoresist •Target Material

> Luminescent Material Coating Material Grinding Wheel

 Thermal Conductive Polishing Material Dielectric Material

High Refractive Index OLED Light-collecting

 Polyimide (PI) Material LED Substrate Wafer OLED Display Material

Component

Laser Diode Semiconductor

 Laser Diode Module Photodiode Laser Diode Red/Green/Blue

 TO-Can Sensor Sensor Micro Spectral Range Sensor

Electrostatic Sensor •Intelligent Transmissive Light Source

 LED Light Source Full Spectrum Light Source

•UV LED Bead

White Laser Series Light

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Chip/Module

Micro-LED Display Chip

•LED Chip Mini Display Chip

Laser Chip

Ground Projection Small Lighting

 Semiconductor Laser Module Projector Lens Module Laser Lighting Module

Laser Engraving Module

Display Terminal LCD Variable Curve Foldable Phone Screen

Terminal Live Streaming Display

 Binocular Waveguide AR Gaming Laptop Display

> Positioning System Surgical Navigation and Mini LED In-vehicle Display

•Naked-eye 3D Holographic OLED Micro Display

Movie Glasses

•Flexible OLED In-vehicle HMI Micro-LED Display Micro-Led Micro Display

•TFT (AM) Driven Backplane Micro/Mini-LED Driven Backplane

 Mini LED Backlight Copper Clad Passive (PM) Driven Backplane

Display Equipment

Semiconductor Equipment

 Micro LED Wafer Laser Detachment Equipment Inkjet Printing Complete Verification Equipment

> One-click Graphical Measurement Instrument X-ray Photoelectron Spectrometer

> > Repair Special Machine

Laser Etching/Marking/Welding Mini LED Display Module Laser Laser Equipment/Automation

Machine

Measuring & Test Instrument

 Rapid Ultra-high Resolution Two-photon Virtual Distance Measurement Instrument Solution

Perspective VR All-in-One

All-in-One

•HD Head-mounted 3D

Binocular Split AR Solution

Waveguide Near-eye Display

 Array Waveguide Module AR/VR Optical Module Optical Module

Mini LED Wafer Laser Stealth Cutting

Rotary Dual-plate Screen Printing Machine

with One-dimensional / Two- Array Waveguide Modules AR Diffractive Waveguide VR Pancake Optical Module Optical Module

Monocular Near-eye Display

dimensional Grating

 AR Holographic Smart Industrial AR Smart AR/VR Glasses Display

 Mini LED Mass Welding Equipment Micro LED Mass Bonding Equipment

 In-vehicle Screen Hard-to-Hard Bonding Plasma Coating Machine

High Precision Labeling Machine

Fully Automatic Drawer-type Debubbler

Spectral Brightness and Colorimeter

Electro-fluid-dynamic Spray Coating

Vacuum Coating Equipment

Vacuum Coating Machine

Evaporation Coating Machine

 Mechanical Head Machining System

Three-dimensional Five-axis

System

 Three-axis Scanning and Control Programmable Logic Controller

Beneq Transform

Optical Inspection Equipment

 Spectrometer Flash Measurement Instrument

 Stress Birefringence Detection Phase Difference Tester