

APPLICATION OF PHOTONICS TECHNOLOGY IN THE **SECURITY & SURVEILLANCE** 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 **core security devices, surveillance system, manufacturing equipment and instruments**. It serves as a one-stop platform for professionals in the security & surveillance industry to seek upstream and downstream products, innovative technologies, engage in trade negotiations, and facilitate procurement.

Exhibit Profile

Core Components: Infrared Lenses, Security Lenses, 3D Vision, Infrared Modules, Optical Materials, Optical Fiber/Cables, Lidar, Infrared Detectors, etc.

Surveillance Systems: Surveillance Systems, Infrared Thermal Imagers, Infrared Thermometers, Gas Leak Detectors, Infrared Night Vision Devices, etc.

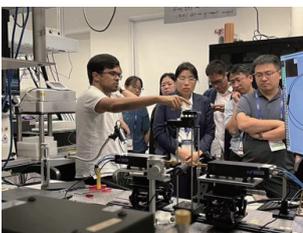
Production and Manufacturing: Robots, Laser Equipment, Semiconductor Equipment, Inspection/Testing and Measurement Instruments, Coating Materials/Coating Equipment, etc.

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.

Core Component

Infrared Lens

- Infrared Thermal Imaging Lens
- Infrared Lens
- Mid-Wave Infrared Lens
- Long-Wave Zoom Lens
- Uncooled Infrared Lens

Security Lens

- Wide-Angle Camera Lens and Module
- Defogging Anti-Glare Surveillance Lens Module
- Recognition Lens
- Surveillance Lens
- Security Lens

3D Vision

- 3D Structural Light Facial Recognition Module
- Ultra-Low Power Fusion Vision Sensor
- Full-Color Night Vision Image Sensor
- AI Depth Camera
- Multispectral Imaging Module
- Area Array dToF Sensor

Infrared Module

- LED Module
- Infrared Module Lens
- Short-Wave Infrared Imaging Engine Module

Blackbody

- High-Precision Surface Blackbody
- Absolute Temperature Surface Blackbody

Surveillance System

Surveillance System

- Wide Area Surveillance System
- Video Doorbell
- Ultra-HD Surveillance Camera
- Wireless Network Camera
- Full-Frame Camera
- Ultra-Long Range Stabilized Observation Camera

Spectral Imaging System

- Drone Spectral Imaging Analyzer
- Drone Hyperspectral Imaging System
- Hyperspectral Remote Sensing Satellite

Telescope

- Thermal Imaging Telescope
- Binocular Outdoor Telescope
- Stabilized Binocular Telescope

Thermal Imager

- Industrial Thermal Imaging IPC Alarm Temperature Detector
- Endurable Infrared Thermal Imaging Processing Solution
- Handheld Thermal Imager

Infrared Thermal Imager

- Thermal Imaging Binocular Heavy-duty Mount
- Ultra-Long Range Stabilized Observation Camera
- Thermal Imaging Smart Network Camera

Gas Leak Detector

- Gas Detector
- Portable Chemical Agent Detector
- Ignition Enhancer Rapid Detection Device

Infrared Night Vision Device

- Handheld Thermal Imaging Night Vision Device
- Helmet Digital Night Vision Device
- Thermal Image Microlight Fusion Night Vision Device

Optical Material

- Aspherical Lens
- Evaporation Coating Material
- Integrated Black Coating
- Coating Target Material
- Customized Infrared Filter
- Infrared Optical Lens

Optical Fiber/Cable

- Quartz Optical Fiber
- Liquid-Core Optical Fiber
- Glass Optical Fiber
- Multimode Optical Fiber
- Central Lens Optical Fiber
- Chalcogenide Glass and Optical Fiber

LIDAR

- Scene Surveillance Radar
- LIDAR Sensor
- Solid-State LIDAR
- Ultra-Wide Angle Blind Spot LIDAR
- LIDAR VLR Chip
- Multi-Line Mechanical LIDAR

Infrared Camera

- Terahertz Camera
- Line Scan Camera
- Panoramic Infrared Camera
- Short-Wave Infrared Camera
- Dual-Spectrum Infrared Camera for Drone
- Dual-Spectrum Camera

Infrared Detector

- Pyroelectric Infrared Detector
- Uncooled Infrared Detector
- Short-Wave Infrared Detector

Engine

- Thermal Imaging Digital Engine
- Uncooled Infrared Standard Engine
- Wearable Infrared Engine

Production & Manufacturing

Robot

- Industrial Robot
- Intelligent Robot Polishing System
- Mobile Composite Robot
- Robot Grinding and Polishing Integrated Machine
- Parallel Six-Degrees of Freedom Robot
- Suction Screw Locking Robot

Laser Equipment

- Air-Cooled Handheld Welding System
- Laser Cutting Equipment
- Handheld Laser Marking Machine
- Intelligent Laser Welding System
- Handheld Laser Spot Welding Machine
- Dual-Station Laser Welding Machine

Semiconductor Equipment

- Bonding Machine
- Cleaning Machine
- Automatic Dicing Machine
- Grinding Machine
- Glue Dispenser
- Soldering Equipment

Inspection/Testing/Measurement Instrument

- AOI Intelligent Appearance Inspection Equipment
- Ultrasonic Non-Destructive Testing and Environmental Testing
- Non-Standard Vision Inspection Equipment
- Freeform Surface Measurement System
- Fully Automatic Image Measuring Instrument
- Optical Measurement System

Coating Material/Equipment

- Optical Coating Machine
- Continuous Magnetron Sputtering Coating Production Line
- Flexible Electronic Roll-to-Roll Vacuum Coating Equipment
- Evaporation Coating Material



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APE 2024 POST SHOW REPORT