APE Asia Photonics Expo

What Will Energy Industry Visitors Discover at APE?

3 - 5 March 2027
Sands Expo and Convention Centre, Singapore

*Based on the exhibit profile of APE 2027, listed in no order.

Material/Lithium Batteries

Semiconductor Material

- Silicon Wafer
- Electronic Specialty Gas
- Specialty Glass
- Photoresist
- Photomask
- Polishing Material
- Wet Electronic Chemical
- Packaging Substrate
- Lead Frame
- Bonding Gold Wire
- Dicing Material
- Ceramic Packaging Material

Third-Generation Semiconductor

- Aluminum Nitride
- GaN Epitaxial Wafer
- SiC Epitaxial Wafer
- GaN Wafer
- SiC Substrate
- SiC Polishing Slurries
- SiC Mirror
- SiC Epitaxial CVD System
- SiC Structural Component
- SiC Laser Equipment
- SiC Epitaxial Equipment
- GaN Epitaxial Equipment

Power Devices

- MOSFET
- IGBT
- GaN
- SiC
- Diodes

Raw Material

- Tungsten
- Ceramic Targets
- Quartz Glass
- Strontium Carbonate
- Ultra-Pure Tellurium / High-Purity Sulfur
- Infrared Optical Components
- Custom Optical Devices
- UV-Transparent Optical Filters
- Welding Field Lenses
- Fluoride Optical Elements

Lithium Batteries

- Perovskite Photovoltaic Cell
- High Specific Energy Lithium Battery
- Long-Cycle Quasi-Solid-State Lithium Metal Battery
- New Energy Power Battery
- Flexible Battery
- Lithium Battery

Optical Fiber Communication

- Super Sensing Optical Cable
- Specialty Optical Fibers & Fiber Systems
- Large Mode Area Erbium-Doped Fiber
- Fiber Bragg Grating Arrays
- Outdoor Optical Cables
- High-Temperature Resistant Fiber
- Power Optical Ground Wire
- Super Sensing Optical Cable
- Copper Profiled Wires
- Tin Wires/Tin Materials

LiDAR/Industrial Sensor

- Solid-State LiDAR
- Thermal Imaging Panoramic LiDAR
- Nacelle-Mounted Wind LiDAR
- Ground-Based Wind LiDAR
- Infrared Combustible Gas Sensor
- Fiber Optic Accelerometer
- Displacement Sensor
- Intelligent Electrostatic Sensor
- Ranging Sensor

Infrared Device/Imaging System

Infrared Night Vision Device

- Infrared Thermal Imaging Night Vision Device
- Vehicle-Mounted IR Night Vision System
- High-End Industrial Thermal Imaging Camera
- Infrared Metalens Thermal Imaging System

Infrared Thermal Imager

- Handheld Infrared Thermography Camera
- Fully Automated Tool-Type Thermal Imager
- UAV Infrared Payload
- Explosion-Proof IR Gas Leak Detector

Gas Analysis/Leak Detector

- Airborne VOCs Emission Visual Inspection System
- Explosion-Proof Infrared Gas Leak Detector
- Hermeticity Leak Testing Instrument
- High-Sensitivity Photoacoustic Spectroscopy Trace Gas Analyzer
- Laser-Based Material Analysis System

Production & Manufacturing

Wafer Manufacturing Equipment

- Oxidation Furnace
- Annealing Equipment
- Coater/Developer
- Lithography Machine
- Etching Equipment
- Stripper
- Ion Implanter
- Thin Film Deposition Equipment
- Cleaning Equipment
- Polishing Equipment
- Metrology Equipment

Packaging & Testing Equipment

- Wafer Thinner
- Wafer Dicer
- Laser Dicing Machine
- Die Bonder
- Wire Bonder
- Sorter
- Optical Microscope
- Probe Station
- Tester
- Molding Machine
- X-ray Inspection System

Laser Processing Equipment/Lasers

- 3D Laser Marking Machine
- Solder Ball Bonder
- Tank-type Cleaning Machine
- Fully Automatic Laser Circular Cutter
- Precision Cutting System
- Solid-State UV Laser
- Semiconductor Laser Diode
- Fiber Femtosecond Laser
- Mid-IR Solid-State Laser
- 30W UV Femtosecond Laser

Automated Equipment

- Mechanical Gripper
- Electrical Proportional Valve
- ESV Bus Valve Terminal
- Heavy-Dayload Gripper
- Automatic Ultrasonic Aluminum Wire Bonding Machine

Environmental Test Chambers & Test Systems

- HAST Chamber
- Rapid Thermal Cycling Chamber
- Thermal Shock Test Chamber
- Vibration Test System
- Combined Environmental Test Chamber
- Shock Tester
- Multi-Function Push-Pull Tester

Vacuum Coating Equipment

- Pilot Production Line for Thin-Film Solar Cell
- Nanocoating Preparation System
- E-Beam Evaporator
- Ultrasonic Spray Coater
- Thermal Resistance Evaporator
- Ion Beam Sputterer(IBS)

3D Vision / Inspection System

- Customized Vision Inspection Equipment
- High-Speed Vision Inspection Machine
- 3D Optical Profiler
- 3D Optical Surface Measurement System
- Heavy Aluminum Wire Bond Pull Tester
- In-Process Welding Inspection System
- 3D Topography Measuring Instrument
- Video Measuring Microscope

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