

APE | Asia
Photonics
Expo

PRESHOW GUIDE 2025

1ST EDITION

26 - 28 February 2025

Sands Expo and Convention Centre, Singapore

www.asiaphotonicsexpo.com

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#APE2025



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Located in the international trade hub of Singapore, Asia Photonics Expo (APE) is Southeast Asia's premier photonics exhibition, offering unparalleled opportunities to explore and unlock the vast potential of Asian markets. The event highlights the latest cutting-edge technologies and emerging applications across the entire photonics value chain, including **optical communication, optics, semiconductors, quantum, lasers, sensing, displays, and infrared**. APE serves as a comprehensive platform for industry professionals to discover new technologies and products while gaining insights into market trends.

2025 HIGHLIGHTS

Industry Advancements

The dynamic growth and increasing demand in Southeast Asia, especially in **Optical Communication, Semiconductor, Advanced Manufacturing, Medical, and Consumer Electronics**, are driving the rise of photonics technologies. APE offers an unparalleled platform to explore the latest advancements in the photonics industry ranging from **chips, components to manufacturing equipment**.

Theme Pavilions & Zones

APE 2025 features a variety of national pavilions from **Singapore, Europe, Germany, South Korea, Japan, China, Hong Kong** and technology zones for **Quantum, Intelligent Sensor, and Vacuum Coating**, showcasing advanced photonics technologies and products. It offers a unique opportunity to explore the latest innovations in photonics and witness collaborative efforts shaping the industry.

Networking Events

APE provides a platform to forge strong connections that can propel your endeavors to new heights, whether you are from **photonics companies, research institutions, or industry associations**. Join us to foster meaningful networking and collaboration between our esteemed exhibitors and visitors.

- Tailor-made **VIP Buyer Program**
- **Happy Hour** at the VIP lounge
- **Gala Dinner (invited only)**
- **Site Tour**

Concurrent Conferences

Dive into Singapore's vibrant photonics research landscape with a lineup of concurrent conferences covering industry and application perspectives. Topics as below:

Quantum Singapore | Photonics@SG
| Asia **Semiconductor** Conference |
Yole Group Forum | **EPIC** Tech
Watch | EUROPE meets ASIA |
Advanced Photonics and Flat Optics | **Electric Vehicle** | **Machine Vision and Robotics** |
Semiconductor Manufacturing.



Exhibit Profile

Optical Communication

- Optical Communication Chip
- Optical Communication Device
- Optical Communication Module
- Optical Communication Transmission Equipment
- Optical Fiber Materials
- Optical Fiber Cable/Fiber Sensing
- Semiconductor Materials
- Semiconductor Equipment and Manufacturing

Laser

- Lasers
- Laser Material
- Laser Component
- Laser Equipment

Display

- Display Material
- Display Panel/Module
- Display Manufacturing

Optics

- Optical Material and Component
- Optical Processing Equipment
- Optical Coating Material
- Optical Lens and Camera Module
- Optical Measuring Instrument
- Machine Vision and Industrial Automation
- AR/VR

Sensing

- Industrial Sensor
- 3D Imaging & Sensing
- MEMS and Sensor
- LiDAR & Component

Infrared

- Infrared Material
- Infrared Component
- Infrared Equipment and Imaging

Quantum

- Quantum Computing
- Quantum Communication and Security
- Quantum Sensing
- Core Upstream Components





National Pavilions

SINGAPORE

- APP SYSTEMS
 - BOTE OPTICS
 - DYMEK ASIA
 - EDMUND OPTICS
 - EVATEC AG
 - HAKUTO SINGAPORE
 - JD UNION
 - LASER 21
 - MITUTOYO ASIA PACIFIC
 - OHARA OPTICAL
 - OPTICAL GAGING
 - OPTO PRECISION
 - OPTOSIGMA
 - PANASONIC FACTORY SOLUTIONS
 - PRECISION OPTICAL SYSTEMS
 - PRECISION TECHNOLOGIES
 - SD OPTICS
 - SINGAPORE DYNAMIC OPTRONICS
 - SINTEC OPTRONICS
 - TRIOPTICS
 - WAVELENGTH OPTO-ELECTRONIC
 - YOKOGAWA
- and many more...*

EUROPE

- CHROMA
- CIS FORSCHUNGSINSTITUT
- DOPA
- HEIDELBERG INSTRUMENTS
- HOLOEYE PHOTONICS
- IMT
- I-PHOTONICS
- OPTOCRAFT
- SANDVIK

and many more...

JAPAN/KOREA

- AGC ASIA PACIFIC
- CYBERNET SYSTEMS
- DAHE THERMO-MAGNETICS
- DBTEK
- DISCO-HI TEC
- MICROVITA-INSTRUMENT
- SWCC
- WOORIRO

and many more...

* Exhibitors are listed in alphabetical order



National Pavilions

CHINA

- BOXIN PHOTOELECTRIC
 - CHENFENG OPTICS
 - GUOTAI VACUUM EQUIPMENT
 - HONPHO TECHNOLOGY
 - CHINA STAR OPTICS
 - FLYIN OPTRONICS
 - FRAN OPTICS
 - XK PHOTONICS
 - KINGDING OPTICAL TECHNOLOGY
 - HENGTONG OPTIC-ELECTRIC
 - DMIS PHOTOELECTRIC COMMUNICATION
 - L-CHASER OPTICS
 - PHOGRain TECHNOLOGY
 - HYWICOM TECHNOLOGY
 - SINCEVISION TECHNOLOGY
 - GREENWICH OPTOELECTRONIC TECHNOLOGY
 - NYSTEIN ELECTRONIC TECHNOLOGY
 - HOPE SENSOR TECHNOLOGY
 - TELLUR MATERIALS
 - TZTEK TECHNOLOGY
 - VILASER EQUIPMENT
 - WEIMI COMMUNICATION
 - XIN GIANT MACRO INTELLIGENT TECHNOLOGY
- and many more...*

Germany

- CUTTING EDGE COATINGS
- FIBERWARE GENERALUNTERNEHMEN FÜR NACHRICHTENTECHNIK
- INFRASOLID
- MICRO-HYBRID ELECTRONIC
- MÖLLER-WEDEL OPTICAL
- NANOSYSTEC
- POLYTEC SOUTH-EAST ASIA
- RGB LASERSYSTEMS
- SENTECH INSTRUMENTS
- SIOS MEßTECHNIK

and many more...

* Exhibitors are listed in alphabetical order



Technology Zones

APE 2025 will serve as a dynamic platform to showcase groundbreaking technologies, drive innovation, and foster meaningful collaborations among industry leaders, research centers, and institutions. This event will feature dedicated **Technology Zones** spotlighting advancements in **Quantum Technologies, Intelligent Sensors, and Vacuum Coating Solutions**, offering attendees an immersive experience into the future of photonics.

Quantum

Quantum technology is a rapidly evolving field with the significant potential to revolutionize various industries. APE 2025 will collaborate with pioneering enterprises in the quantum field to present advanced technologies, including **Quantum Computing, Quantum Communication and Security, Quantum Sensing** and its core components.

Intelligent Sensor

This zone will showcase **Industrial Sensor, 3D Imaging & Sensing, MEMS Sensor, and LiDAR**. These products are crucial for advanced manufacturing, testing and measurement, consumer electronics, and electronic vehicle applications.

Vacuum Coating

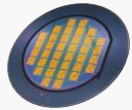
Vacuum coating technology is a key enabler for a wide range of applications, including **semiconductors, optics, electronics, and materials**. Displaying vacuum coating technology at APE 2025 provides the opportunity for attendees to learn about the latest techniques and applications in the field.

**Exhibitor list coming soon....*



Product Preview – Optical Communication

ANPL
Booth No: A008



Thin Film Lithium
Niobate Modulator Chips

Bandwidth 10
Booth No: B121



InP-based Long
Wavelength
Tunable VCSELs

Beecon
Booth No: A501



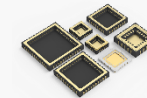
LC Duplex Adaptor With
Flange And Shutter

BELY
Booth No: A007



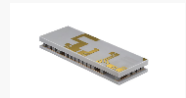
Active Devices
TOSA/ROSA/BOSA

Tcpack
Booth No: A006



High Temperature
Ceramic Packages

Dahe
Booth No: B132



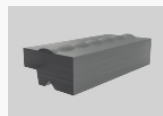
Thermoelectric
Modules

Ferrotec
Booth No: A523



Copper Bonded
Ceramic Substrates

Focuslight
Booth No: C121



Integrated Microprism
Plus Microlens

Jingzheng
Booth No: A302



Lithium Niobate Thin
Films

WOORIRO
Booth No: B103



SPAD (Single-
Photon Avalanche
Diode)

Xiayu
Booth No: A103



LC Connector With
Adapter

Xin Giant
Booth No: A311, A312



Fiber Jumper Series

* Exhibitors listed in alphabetic order

[>>> View More Products](#)



Product Preview – Optical Communication

Able
Booth No: A513



1550nm Er/Yb co-doped
High Power Optical
Amplifier

DBTEK
Booth No: B104, B105



GT 100

Dexin Digital
Booth No: C314



RF Power Supply

DMIS
Booth No: A521



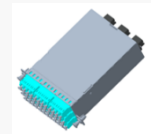
Optical Fiber Patch
Cord

GL
Booth No: A016



Aerial Fiber Optic
Cables

LACY
Booth No: A002



MPO&MTP® 36
Cassettes

LACY
Booth No: A002



High Density Rack
Enclosure

Xinmai
Booth No: A505, A506



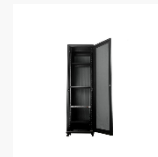
Fiber Optic Composite
Overhead Ground Wire

Yoohon
Booth No: A017



Optic Distribution
Frame

Yoohon
Booth No: A017



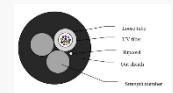
Fiber Optic Network
Cabinet

Yoohon
Booth No: A017



Satellite Dish Antenna

YUXIN
Booth No: A001



ASU Mini ADSS
Cable

* Exhibitors listed in alphabetic order

[>>> View More Products](#)



Product Preview – Optical Communication

EVATEC AG
Booth No: B304



BAK Family

EVATEC AG
Booth No: B304



CLUSTERLINE® Family

Huachuang
Booth No: B531



Vacuum Reflow
Oven

Huachuang
Booth No: B531



Parallel Seam Sealing
system

Huachuang
Booth No: B531



De-lidder

Opto-Intel
Booth No: A532



Microwave Plasma
Cleaning System

Opto-Intel
Booth No: A532



Precision Automatic
Die Bonder Series

Opto-Intel
Booth No: A532



Vacuum Solder
Reflow Oven

Rongbang
Booth No: A012



MPO/MTP Automatic
Pressure Fiber Grinding
Machine

Rongbang
Booth No: A012



Optical Fiber Connector
Production Equipment

Rongbang
Booth No: A012



Optical Cable
Production Line
Extruder 30.50, 70
Machines

* Exhibitors listed in alphabetic order

[>>> View More Products](#)



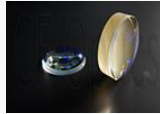
Product Preview – Precision Optics

HUMON
Booth No: C002



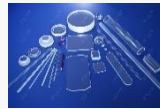
High Purity
Selenium

Chenfeng
Booth No: D111



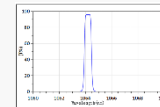
Optical Components

Zhenjing
Booth No: D511



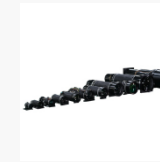
Sapphire Windows

FOM
Booth No: C326



1064.2nm Ultra-
narrow Band Pass
Filter

Boxin
Booth No: D212, D213



Lens Assembly

IRLENS
Booth No: C501



MWIR Continuous
Zoom IR Lens ZL09

WAVELENGTH
Booth No: B221



Ronar-Smith® F-
Theta Scan Lenses

Archer
Booth No: B124



PerfectLens® SIVA Series
(System Imaging Vision
Assembly)

Lan Hai
Booth No: C008



Aerial Survey Lenses, Lithography
Machine Lenses, TOF Lenses, 3D
Laser Profiler Lenses, Machine
Vision Lenses, Low-light Lenses,
Vehicle Lenses And Special Lenses.

UV Technology
Booth No: D226



UVLED Linear Light
Source

IBRNTECH
Booth No: D317



Industrial Vision

Huashi
Booth No: C105



Camera Module

* Exhibitors listed in alphabetic order

[>>> View More Products](#)



Product Preview – Precision Optics

Baiteng
Booth No: D301



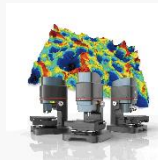
Pushbroom
Hyperspectral Camera

Baiteng
Booth No: D301



UAV Hyperspectral
Camera System

Boardstone
Booth No: C104



White Light
Interferometry Optical
3D Profiler

Boardstone
Booth No: C104



Image Dimensional
Measurement
System

GAGING
Booth No: B311



OGP SmartScope E7

IBRNTECH
Booth No: D317



Industrial Curing

Kejing
Booth No: C113



UNIPOL-802 Automatic
Precision Grinder / Polisher
(Lapping and Polishing
Machine)

Kejing
Booth No: C113



SYJ-400 CNC Dicing
/ Cutting Saw

Kurt Lesker
Booth No: D311



KJLC Cobalt Dry
Scroll

Kurt Lesker
Booth No: D311



PRO Line PVD 75

UV Technology
Booth No: D226



UV Test Instruments

TYGGO
Booth No: C526



Laser
Interferometer
INF600-LP

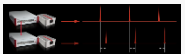
* Exhibitors listed in alphabetic order

[>>> View More Products](#)



Product Preview – Laser/Infrared

ACEXON
Booth No: B224



FemtoFiber Laser
Solutions

Arima
Booth No: C131



Laser Beam Scanning

CamOptics
Booth No: D233



Liquid Crystal on Silicon
Spatial Light Modulator
Driver

HONPHO
Booth No: C315, C316



DHK082 Dual Models
(visible + infrared)
Platform Spot Tracker

HONPHO
Booth No: C315, C316



TS300D-01/ TWO-AXIS 4
Frames Gyro Stabilized
gimbal

JuBo Guneng
Booth No: C106



Hf02

RUIK-TECH
Booth No: D326



1310/1550nm
500mW OCT
Module

SmartCore
Booth No: C006



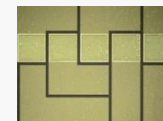
Rapid Multi-
wavelength Tunable
Lasers

TELLUR
Booth No: C516



Tellurium

XINHUILONG
Booth No: D507



Heat Spreader For A
Group Of LED's

* Exhibitors listed in alphabetic order

[>>> View More Products](#)



Conference At A Glance

Date	Time	Venue	
		Conference Room	Technical Theatre
26 February	10:00am - 11:00am	Opening Ceremony	
	1:00pm - 4:00pm	Quantum Singapore 2025	Yole Group Forum
	4:15pm - 5:45pm		EPIC Tech Watch
27 February	9:00am - 12:00am	Photonics@SG 2025 Conference	2025 Photonics Empowering Electric Vehicle Technology Forum
	2:00pm - 5:00pm		2025 EUROPE meets ASIA - Innovation in Photonics by W3+, IVAM & EPIC
28 February	9:00am - 12:00pm	Forum on Advanced Photonics and Flat Optics	Photonics Technology Empowering Semiconductor Manufacturing Forum
	2:00pm - 5:00pm	Asia Semiconductor Conference	Machine Vision and Robotics Enabling Industrial Intelligent Manufacturing Forum



Concurrent Conferences

Quantum Singapore 2025

[>>>More Details](#)

Under Singapore's strategic quantum initiative dedicated to propelling its quantum technology capabilities and research to new heights, Singapore made substantial investments in quantum research and development to solidify its status as a leading innovation hub in Asia. This conference includes topics such as National Quantum Strategy, Collaboration with Institutions, Talent Development, Applications of Quantum Technology, International Conferences and Events.

Photonics@SG 2025 Conference



[>>>More Details](#)

LUX PHOTONICS CONSORTIUM in partnership with NTU, NUS, SUTD and A*STAR will present this annual conference with the objectives to showcase the latest photonics technologies and innovations; to continue building the strong link between academia and industry; and to highlight and promote photonics R&D in Singapore to international visitors.

Asia Semiconductor Conference



[>>>More Details](#)

Organised by the Singapore Semiconductor Industry Association, the Asia Semiconductor Conference brings together leaders and innovators from across the semiconductor industry. The conference will delve into current trends and foster meaningful discussions, paving the way for technological integrations that will shape the future of the global semiconductor ecosystem.





Concurrent Conferences

Forum on Advanced Photonics and Flat Optics

[>>> More Details](#)

This event is jointly organized by the National Semiconductor Translation & Innovation Centre (NSTIC), LUX Photonics Consortium and the Singapore Semiconductor Industry Association (SSIA). Join us at this exciting forum that unites leaders, innovators, and experts from the photonics & semiconductor industries to explore cutting-edge advancements in Advanced Photonics & Flat Optics technologies.



EUROPE meets ASIA - Innovation in Photonics by W3+, IVAM & EPIC

[>>> More Details](#)

This forum is organized by renowned European organizations W3+, IVAM & EPIC, is set to be a remarkable event that brings together leading enterprises from the European optoelectronics industry to share their latest technological advancements and achievements. It could be a perfect chance to get in touch with key decision makers and potential collaborators across the industries.



Yole Group Forum

[>>> More Details](#)

The Yole Group will continue to co-organize the highly anticipated photonics forum, which delves deeply into the latest trends in photonics industry and its applications, including evolving player strategies, future technological development roadmaps, and market forecasts.



EPIC Tech Watch

[>>> More Details](#)

The EPIC Tech Watch, organized by the European Photonics Industry Consortium - the world's largest photonics industry association, will bring together experts and leaders in the photonics industry. Featuring a series of refined speeches, the conference will mainly focus on key technologies, trends, and applications within the field of photonics.





Concurrent Conferences

Photonics Technology Empowering Semiconductor Manufacturing Forum

[>>>More Details](#)

This forum will invite semiconductor wafer fabrication, packaging, testing companies to share insights from market, technology, and application perspectives. The forum will deeply explore topics related to advanced wafer fabrication equipment and processes, advanced packaging technologies, and testing, writing a new chapter of collaborative development between photonics technology and semiconductors, and bringing more inspiration and driving force to the industry.

Photonics Empowering Electric Vehicle Technology Forum

[>>>More Details](#)

To closely meet the needs of the rapidly evolving electric vehicle (EV) industry, the forum will comprehensively explore the applications and solutions of photonics technology across various emerging fields. It will emphasize the deep integration of photonics technology in the EV sector, providing a key platform for technical exchanges and business cooperation. This event offers professionals in the intelligent vehicle industry a unique opportunity to discuss innovations that will drive the future of smart and electric vehicles.

Machine Vision and Robotics Enabling Industrial Intelligent Manufacturing Forum

[>>> Agenda](#)

The forum will gather renowned companies from the fields of industrial robots, machine vision, and LiDAR to engage in in-depth exchanges and discussions on industry application needs and key technologies. This will facilitate the comprehensive strategic transformation towards "Asian Intelligent Manufacturing".





Concurrent Activities

Gala Dinner (By Invitation Only)

[>>>More Details](#)

Join us for an exclusive Gala Dinner, an evening of elegance and distinction, dedicated to celebrating the visionaries and leaders of the photonics industry. This prestigious event will bring together top executives from leading photonics companies, renowned research institutions, and influential industry associations, offering a unique opportunity to network and honor those shaping the future of photonics.

Date: 26 February 2025 **Time: 6:00 pm - 9:00 pm**

Happy Hour

[>>> Secure your seat](#)

Join us for an exclusive Happy Hour at the exhibition, where guests can unwind with drinks and light bites. Set in a premium atmosphere, this event is designed to foster meaningful networking and collaboration between our esteemed exhibitors and distinguished VIP visitors. It's the perfect opportunity to connect, share ideas, and build valuable relationships in a relaxed, informal setting.

Date: 27 February 2025 **Time: 5:30 pm - 6:00 pm**

Venue: VIP Lounge, L1, Sands Expo & Convention Center (Marina Bay Sands), Singapore

Attendee: All visitors & exhibitors

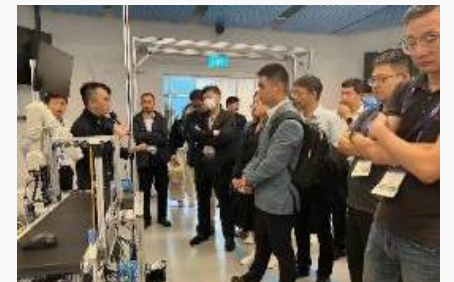


Site Tour

[>>>More Details](#)

Embark on an exclusive Site Tour, available only to APE visitors, and gain unprecedented access to state-of-the-art labs, cutting-edge production plants, and innovative research centers across Singapore. This unique opportunity offers an immersive experience, allowing you to explore the forefront of the nation's vibrant photonics sector. Witness live demonstrations of the latest technologies and advancements, and gain deeper insights into the solutions shaping the future of the industry.

Date: 26 - 28 February 2025 **Venue: All Around Singapore**





Connect with Over 5,000 Industry Peers at APE 2025

Part of APE 2025 Visitor Registration List

(updated as of 11 Dec 2024)

- | | | | | |
|-----------------------|----------------------------|------------------------|---------------------------|-------------------------------|
| • A*STAR | • CAIRNHILL METROLOGY | • FORUS HEALTH | • LINKFAB TECHNOLOGIES | • RAITH ASIA |
| • ACCURATE MACHINERY | • CANON SINGAPORE | • FOSTEC | • LINTESTECH | • SAMBA LABS |
| • ACCUSYS | • CATVISION | • FOUNTYL TECHNOLOGIES | • LITE-ON | • SANWA SEIMITSU |
| • ACE OPTICAL | • CETM | • GALASEMI | • LUMILEDS SINGAPORE | • SFO TECHNOLOGIES |
| • ACEXON TECHNOLOGIES | • CITADEL SECURITIES | • GARDY ELECTRONICS | • MASSTRON | • SGINNOVATE |
| • AEROTECH | • COHERENT | • HITACHI | • MESA QUANTUM | • SOITEC MICROELECTRONICS |
| • AGC ASIA PACIFIC | • CONEX HEALTHCARE | • HOYA | • MIDWEST OPTICAL SYSTEMS | • STMICROELECTRONICS |
| • ALPHA X TECHNOLOGY | • CORNING | • IDI LASER | • MITSUBISHI ELECTRIC | • SUNLUX TECHNOVATIONS |
| • AMA | • DELO | • INFINEON | • MITUTOYO ASIA PACIFIC | • TECNISCO ADVANCED MATERIALS |
| • AMAZON LAB126 | • DELTA OPTICS | • INTEL | • MMI SYSTEMS | • THERMO FISHER SCIENTIFIC |
| • ANRITSU | • DENSELIGHT | • I-PHOTONICS UAB | • OHARA OPTICAL | • TITAN SMARTTECH |
| • APPLE INC | • DEXERIALS | • ISA TECHNOLOGY | • OPHIT | • TOFAN INTERNATIONAL |
| • APPLIED MATERIALS | • DWA COMMUNICATION SYSTEM | • KAIST | • OPTOSIGMA | • TONLEX GLASS TECHNOLOGY |
| • APTUS CORPORATION | • DYNAVUE TECHNOLOGY | • KEYENCE | • PALOMAR TECHNOLOGIES | • TRILOGY TECHNOLOGIES |
| • ARIMA LASERS | • EDMUND OPTICS | • KINCHIT TECHNOLOGIES | • PANOPTICS | • VALES PHOTONICS |
| • ASMPT | • EINST TECHNOLOGY | • KINERGY | • PEPPERL+FUCHS | • VISIONSEMICON |
| • BEAUMEDIC AESTHETIC | • EXCELITAS TECHNOLOGIES | • KOMAX SINGAPORE | • PHAOS TECHNOLOGY | • WAVELENGTH OPTO-ELECTRONIC |
| • BECTON DICKINSON | • EXPOTRANS | • KOWA SKYMECH | • PINNACLE TECH | • WINTech NANO-TECHNOLOGY |
| • BELL ELECTRONICS | • FERROTEC CORPORATION | • LASERTEK | • PIXELLIGENT | • YAMAICHI ELECTRONICS |
| • BIZLINK | • FESTO | • LECI | • POLYTEC | • ZERO-ERROR SYSTEMS |
| • BROADCOM | • FI GROUP | • LEUZE ELECTRONIC | • QORVO | |
| • BYTEDANCE | • FLEXIV | • LIGHTELLIGENCE | • QUALIVON TECHNOLOGIES | |

and many more...

[>>> Download the list](#)



Premium Service for Visitors

Delegation Registration

[>>> Download the delegation form](#)

It's designed for enterprises, associations, institutes, and colleges wishing to organize delegation groups of 3 or more people, including staff or members involved in R&D, production, processing, manufacturing, procurement, or supply chain, to visit APE.

Benefits of Delegation (≥3 Delegates)

- ✓ Free admission
- ✓ Free eCatalogue 2025
- ✓ Pre-show Guide
- ✓ Delegation Visiting Gift
- ✓ **VIP Matchmaking Service** (Available Upon Sourcing Request in Advance)

Note: Please fill the form out and send to Eileen Chen at eileen.chen@informa.com



VIP Buyer Program

[>>> Register as a VIP Buyer](#)

The APE VIP Buyer Program offers exclusive, tailored VIP services for key buyers and senior decision-makers in the photonics industry. This program is designed for individuals with specific sourcing or purchasing needs, primarily targeting **top management, sourcing and supply chain professionals, R&D engineers**, and those in **production and manufacturing**.

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Discover How Photonics Technologies Empower Key **Application Industries**



**Optical
Communication**



Semiconductor



**Consumer
Electronics**



Robotics



**Advanced
Manufacturing**



Medical



Intelligent Driving



Defense & Security



Lighting / Displays



Energy

*This is a partial list of exhibits, presented in no particular order.

Optical Chip

Active Component Chip

Laser Chip

- VCSEL Chip
- DML Chip
- EML Chip
- Silicon Optical Chip
- Thin-Film Lithium Niobate Modulation Chip

Detector Chip

- PIN Chip
- APD Chip

Amplifier Chip

- LA Chip
- TIA Chip
- LD Driver Chip

Passive Component Chip

- PLC Chip
- WDM Chip
- Optical Switch Chip
- Optical Attenuator Chip

Optical Subassembly

- Ceramic Ferrule
- Ceramic Insert
- Ceramic Heat Sink
- Micro-Optical Component
- Metallized Optical Fiber Assembly
- Optical Window Cover and Heat Sink Component

- Optical Isolator
- Optoelectronic Hybrid Connector
- Fiber Optic Quick Connector
- Fiber Optic Splitter
- Fiber Optic Adapter
- Pluggable Optical Interconnect Assembly
- Large-Area Photodetector Assembly

Optical Component

Active Optical Component

- Light Source/Laser
- VCSEL
- Semiconductor Light-Emitting Diode
- Laser Diode
- Narrow Linewidth Tunable Laser
- Butterfly Laser
- DFB Laser
- EML Laser

- #### Optical Amplifier
- Semiconductor Optical Amplifier
 - Fiber Amplifier

- #### Optical Detectors
- PIN Photodetector
 - APD Photodetector

- #### Others
- High-Speed LCOS Spatial Light Modulator
 - Electro-absorption Modulated Transmitter
 - Thin-Film Lithium Niobate Modulator
 - TOSA
 - ROSA
 - BOSA

Passive Optical Component

- Optical Fiber Connector
- PLC Splitter
- Optical Switch
- Optical Isolator
- Wavelength Division Multiplexer/Demultiplexer (WDM/DWDM)
- Optical Attenuator (FOA/VOA)

Optical Fiber Material

- Optical Fiber Preform
- Optical Fiber Coating Material
- Aligned Aramid Yarn
- Optical Fiber Polishing Fluid
- Optical Fiber Polishing Powder
- Optical Fiber Protective Sleeve
- Heat-Shrinkable Connector
- Heat-Shrinkable Mid-Span Joint
- Heat-Shrinkable Mid-Span Sleeve
- Heat-Shrinkable Cap
- Mini Cap
- Night-core Fiber
- Heat-Shrinkable Tubing

Optical Fiber/Cable

- Single-Mode Optical Fiber
- Multi-Mode Optical Fiber
- Plastic Optical Fiber
- Glass Optical Fiber
- Quartz Optical Fiber
- Erbium-Doped Optical Fiber
- Ytterbium-Doped Optical Fiber
- Photoelectric Composite Cable
- Outdoor Optical Cable
- Figure-8 Optical Cable
- Data Center Optical Cable
- Miniature Distribution Optical Cable
- Multi-Core Bundled Soft Optical Cable
- Underwater Submarine Optical Cable

Optical Module

- High-Speed Optical Module
- 400G Optical Module
- 800G Optical Module
- 100G Optical Module
- Coherent Optical Module
- Ultra-wide Passband thermal AWG Module
- Full Range of Optical Module
- 10G Series and 25G Series Optical Module
- Pluggable Optical Module
- 50G Front-Haul Optical Module

Optical Transmission Equipment

- Si-Photonics Aligner
- All-Optical Switch
- PDH Terminal Equipment
- WDM Equipment
- Optical Transmission Equipment
- Optical Connection Equipment
- OLT Access Equipment
- Aggregation and Distribution Equipment
- Optical Pulse Analyzer
- Optical Amplification/Protection Subsystem
- DWDM Open Access System
- High-Integration WDM Transmission System
- Optical Cable Automatic Monitoring and Management System
- High-Performance Optical Power Meter

Data Center Equipment

- Ethernet Switch
- Layer 3 Network Switch
- Optical Access Terminal
- Data Center Switch
- Network/Server Cabinet
- Core Aggregation Switch
- Integrated Intelligent Cabinet
- Micro-Modular Data Center

Wire and Cable

- Active Cable
- High-Speed Cable
- Network Cable
- Copper Cable
- Straight Copper Cable
- Coaxial Cable
- Network Patch Cable
- Polyurethane Cable Jacket

Instrument

- Optical Network Tester
- Communication Testing Instrument
- High-Performance Spectrometer
- High-Performance Bit Error Rate Tester (BERT)
- Ethernet Tester
- Oscilloscope
- Rapid Scanning Test System
- Wavelength Scanning Test System
- Optoelectronic Network Analyzer
- Signal Quality Analyzer
- Fiber Fusion Splicer

Production & Manufacturing

Cable Production Equipment

- Numerical control quartz tube and rod shaping grinder
- Patch Cord Production Equipment
- Automatic Fiber Double Drum Winder
- Fiber Coil Winding Machine
- Optical Fiber Grinding Equipment
- Wire Winding and Tying Machine
- Fully Automatic Labeling Machine
- Tensile and Compression Testing Machine
- High-Speed Coloring Machine
- Cable Jacket Extrusion Machine
- Copper Wire Twisting Machine
- Wire Cutting Machine
- Fully Automatic Receptacle Assembly Machine
- Fully Automatic Winding and Twisting Hanging Cutting Cable Machine

Semiconductor Material / Equipment and Manufacturing

Materials

- Indium Phosphide
- Gallium Nitride
- Gallium Arsenide
- Monocrystalline Silicon
- Organic Germanium
- Germanium Wafer
- Gallium Aluminum Arsenide

- Epitaxial Wafer
- Photoresist
- Photomask
- Lithium Niobate Single-Crystal Thin Film
- Passive Component
- Silicon Photonics Integration
- Adhesives

Equipment and Manufacturing

- Chip Epitaxial Equipment
- Chip Cleaving Machine
- Chip Tester
- Pick-and-Place Machine
- Cleaning Machine
- Slicing Machine
- Semiconductor Packaging and Testing
- LD Automatic Eutectic Bonder
- PD Automatic Eutectic Bonder
- Automatic Wire Bonder
- Optical Wire Bonding Machine
- Centrifugal Debubbling Machine
- Automatic Optical Path Alignment Machine
- Optical Coupling Glue Dispenser

- Wafer Cutter
- Wafer Testing System
- High-Precision Die Bonder
- Coating Equipment
- Vacuum Drying Oven
- Parallel Sealing Machine
- Helium Mass Spectrometer Leak Detector



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Semiconductor Material

Silicon Wafer

- 8-inch Back-illuminated Hybrid Bonding Wafer
- VCSEL/InGaAs Epitaxial Wafer
- Infrared Temperature Sensor Wafer

Material

- Indium Phosphide / Gallium Nitride/Gallium Arsenide Epitaxial Layer
- Lithium Niobate Single Crystal Thin Film

Ceramics

- CSOP Ceramic Packaging Shell
- HTCC (High-Temperature Co-fired Ceramic)
- Laser Ceramic Reflector / Diffuser

Polishing Slurry/ Pad

- SiC Polishing Slurry
- Silicon Dioxide Polishing Slurry
- Polyurethane Series Polishing Pad
- Sapphire Polishing Pad

Grinding Material

- Diamond Grinding Fluid
- Grinding Pad
- Fiber Optic Grinding Discs

Photoresist

- Photoresist Verification
- Heat-Assisted UV Imprint Photoresist
- Full Range of Nanoimprint Material

Target / UV Anti-reflective Coating

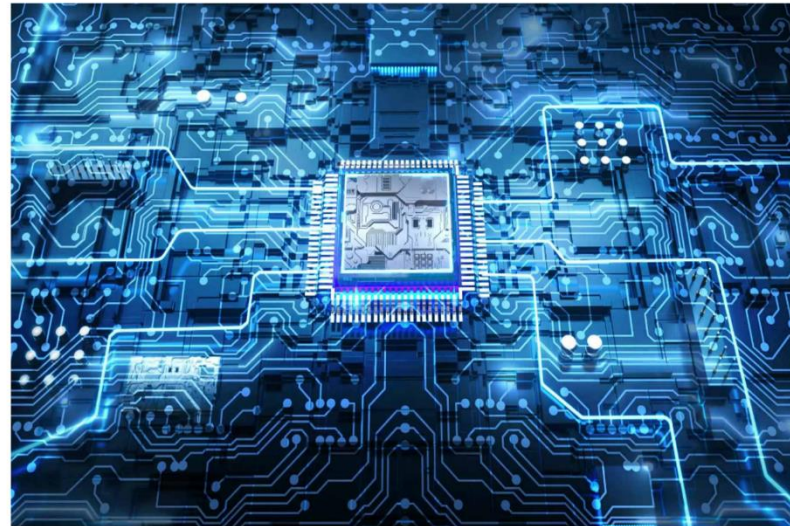
- Sputtering Target
- Metal Oxide Semiconductor Target
- UV Debonding Film

Substrate

- Silicon Carbide Thermal Management Substrate
- Aluminum Oxide Ceramic Substrate
- Silicon Nitride Ceramic Substrate

Grinding Wheel / Solder Ball

- Thinning Grinding Wheel
- Resin Grinding Wheel
- Ceramic Diamond Grinding Wheel
- Gold Solder Ball



Optoelectronics

Optoelectronic Chip

Optical Chip

- APD Chip
- 800G Silicon Optical Chip
- Detector Chip
- High-Speed Optical Detector Chip
- 800G DRB Transmitting Chip

Electronic Chip

- LD Driver Chip
- TIA Chip
- DSP
- OLT Chip

VCSEL / Laser Chip

- 50G PAM4 VCSEL Automotive VCSEL Chip and Multi-junction VCSEL Chip
- 940nm TOF VCSEL Chip

Sensor Chip

- LIDAR VLR Chip
- SiPM
- High-Precision Multi-channel Signal Processing ASIC Chip
- 50-Megapixel Intelligent Temperature Sensing Chip

Optical Communication Component

- Active Optical Component
- Passive Optical Component
- Optical Module

Optical Display Component

- LED
- OLED
- MiniLED
- MicroLED

Photodetector

- Avalanche Photodiode
- Photomultiplier Tube
- PIN Photodiode

Manufacturing Equipment

Lithography / Etching Equipment

- SiC Polishing Slurry
- Silicon Dioxide Polishing Slurry
- Polyurethane Series Polishing Pad
- Sapphire Polishing Pad

Annealing Furnace / Oxidation Furnace

- Vacuum Bridging Furnace
- De-gas Furnace
- Vacuum Reflow Furnace
- Wet Oxidation Furnace

Thin Film Deposition Equipment

- CVD Equipment
- Nano Film Layer Deposition System
- Linear Multi-chamber Thin Film Deposition System

Polishing Machines / PVD Equipment

- CMP Polishing Machine
- PVD Coating Equipment
- Roll-to-Roll PVD Vacuum Coating Equipment

CVD Equipment / Electroplating Equipment

- CVD Equipment
- Plasma Enhanced CVD Equipment
- Wafer Electroplating Equipment

Cleaning Machine

- Wafer Cleaning Machine
- Plasma Cleaner
- Single Wafer Cleaner
- Ultrasonic Cleaner

Packaging & Testing Equipment

Thinning / Lamination machine

- Fully Automatic Thinning Machine
- Wafer Thinning Machine
- Automatic Lamination Machine

Coupling Machine

- Automatic Optical Path Coupling Machine
- Waveguide Combiner System
- Coupling Alignment System

Bonding Machine

- High-Precision Chip Bonding Machine
- Wire Bonding Machine
- Multi-Function Bonding Machine

Die Bonder

- High-Speed Die Bonder
- COB Die Bonder
- Semiconductor Dual-Head Die Bonder

Mounting Machine / Oven

- Micro-Precision Mounter
- High-Precision Epoxy Mounter
- UVLED Oven
- Vacuum Pressure Oven

Sorter

- Fully Automatic High-Precision Sorter
- Chip Sorter
- Wafer Laser Sorter

Dicing Machine

- LD/PD Chip Dicing Machine
- Dual-Axis Precision Dicing Machine
- 8-inch Single-Axis Semi-Automatic Dicing Machine

Cleaning / Welding / Cutting Equipment

- Laser Cleaning Machine
- Solder Ball Welding Machine
- Fully Automatic PCB Laser Marking Machine
- Semiconductor Cutting Equipment

Intelligent Sensor

LIDAR

- Multi-line Mechanical LIDAR
- Ultra-Wide Angle Blind Spot Laser Radar
- Single-point Ranging LIDAR

3D Vision

- CMOS Image Sensor
- 3D TOF (Time-of-Flight)
- Vision Sensor
- TOF Ranging Sensor
- Image Sensor and Module

Industrial Sensor

- Gas Leakage Detection Sensor
- Infrared Carbon Dioxide Sensor
- Capacitive Angle Sensor

MEMS Sensor

- Material Sensor
- Detection Sensor
- Temperature Sensor

Other Sensors

- Projector Module
- Micro Electrostatic Sensor
- Fiber Optic Gyroscope Sensor

Measuring & Test Instrument

Testing / Measurement Instrument

- Temperature Cycling Test Chamber (Hot and Cold Shock Tester)
- Semiconductor Laser COS Testing Equipment

Interferometer

- Multi-wavelength Laser Interferometer
- Vertical Laser Interferometer
- Non-contact Laser Interferometer

Profiler

- 3D Optical Profiler
- Line Laser Profiler
- Probe-Based Surface Profiler

Probe Station

- VCSEL Wafer Probe Station
- Silicon Photonics Probe Station
- Probe Testing Equipment

Measuring Instrument

- Wafer Warp and Stress Measuring Instrument
- High-Precision Vision Measuring Instrument
- 3D Topography Measuring Instrument

Spectrometer

- Cooling Spectrometer
- Near-Infrared Spectrometer
- Picometer Spectrometer

Infrared Thermal Imaging

- Infrared Thermal Imager
- Infrared Detection Instrument
- ASIC-based thermal imaging core solution

Microscope

- 3D Imaging Microscope
- Stereo Microscope
- Ultra-Deep Focus Video Microscope

Optical Inspection Equipment

- Mask AOI Equipment
- AOI Intelligent Appearance Inspection Equipment
- Semiconductor Wafer AOI



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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

Core Component

Advanced Manufacturing Equipment

Industrial Robot/Automation Equipment

Industrial Robot

- SMR Mobile Composite Robot
- 3C Industrial Robot
- Robot Grinding and Polishing Machine

Industrial Robot

- XR Evaluation Bionic Robot
- Robotic Polishing System
- Parallel Six-degree-of-freedom Robot

Automation Equipment

- Automatic Ultrasonic Pressure Welding Machine
- High-precision Quantitative Grinding Machine
- Automatic Sorting Machine

Laser Equipment/3D Printing

Laser Processing Equipment

- Laser Cutting Machine
- Laser Marking Machine
- Laser Soldering Machine

- Laser Marking Machine
- Handheld Laser Spot Welding Machine
- Large Format Glass Laser Cutting Machine

3D Printing

- Carbon Fiber 3D Printer
- 13.6-inch 3D Printer
- 3D Printer

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 Tracking System
- 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 Laminator

Display Equipment

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



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Key Material

Optical Material

- Hydrophilic Film
- Optical Glass Strip
- Optical Coating Material
- Optical Window
- Hemispheric, Hyper Hemispheric Dome
- Spherical Lens
- Cylindrical Lens
- Ultra-precision Optical Component

Laser Material

- Laser Wafer
- Fiber Crystal
- Fast Axis Collimating Lens
- Collimator / Focus Lens
- Fresnel Lens
- Fiber Lens
- Bessel Beam Diffraction Axis Conical Mirror
- Beam Expander
- Laser Galvanometer Mirror
- Laser Protective Lens
- Integrated TOF LIDAR Receiver Chip
- LIDAR EEL Chip
- Semiconductor Laser Chip
- Semiconductor Laser Diode
- High Uniformity Beam Sampling Grating
- Broadband Gold-plated Grating

LiDAR Core Component

- Array SPAD Sensor
- Area Array SPAD Detector
- Multi-Junction VCSEL Array
- LiDAR Scanning Module
- FMCW LiDAR Dedicated MEMS Mirror

Display Material

- Organic Luminescent Material
- Microcrystalline Glass
- Anti-Reflection and High-Transmission Coating
- OLED Light-focusing High-refractive Layer
- ITO Target Material
- Metal Oxide Semiconductor Target Material



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Core Component

Industrial Sensor

- Vibration Sensor
- Pressure Sensor
- Force Sensor
- LVDT Displacement Sensor
- 6D Force Torque Sensor
- Fiber Optic Acceleration Sensor
- CMOS Image Sensor
- CMOS Industrial Sensor
- Fiber Bragg Grating Sensor

3D Vision

- 3D Structural Light Vision Module
- 3D Binocular Stereo Vision Module
- 3D Vision AI Chip
- 3D TOF
- IoT Solution
- CMOS Image Sensor
- Vision Sensor
- TOF Ranging Sensor

LiDAR

- Multi-Line Mechanical LiDAR
- ToF LiDAR
- Single Point Ranging LiDAR
- DToF LiDAR
- Industrial Grade LiDAR
- Solid-State LiDAR
- Single-wire High-speed LiDAR
- LiDAR Light Source - EEL & VCSEL
- Ultra-wide Angle Blind Spot LiDAR

Industrial Camera

- Industrial Camera
- Ultra-high-speed Industrial Camera
- 4K Industrial Camera
- Infrared Camera
- High-speed Camera
- Industrial Grade RGB-D ToF Camera

MEMS Sensor

- 3D-dToF Sensor
- Single-photon 1D-dToF Sensor
- Two-Dimensional Electromagnetic Actuated MEMS
- MEMS Mirror
- MEMS Galvanometer

Motor

- XY Micro-Linear Motor Platform
- Stepper Motor
- Miniature DC Hollow Cup Motor
- Sealed Spindle Rotary Table Motor
- Indexing disk motor servo
- Small Size Alignment Motor Servo
- LNP Linear Motor
- DD Motor
- Hollow Cup Motor
- ISMC Micro Servo Driver
- Servo Driver
- Optoelectronic Encoder

Display Screen

- Silicon-based OLED Micro Display
- Micro-LED Miniature Micro Display
- Seamless U-shaped (Wedge-shaped) Folding Screen
- Flexible Micro-LED Display

Reducer/Controller

- Hollow Cup Planetary Reducer
- Low-Temperature Reducer Motor
- DC Reducer Motor
- DC Brushless Motor
- DC Brushed Hollow Cup Motor
- Piezo Controller/Amplifier/Driver
- Crystal Oscillation type Deposition Controller

Laser

- Optical Fiber Laser
- Solid-state Laser
- Semiconductor Laser
- High-power RF Laser
- Solid-State UV Laser
- Super luminescent Light Emitting Diode
- Spatially Coupled Fiber Laser
- High-energy Picosecond Infrared Laser
- All-solid-state High-energy Picosecond Laser
- Beam Adjustable Continuous Fiber Laser
- High-power Quasi-continuous Fiber Laser
- High Reliability Femtosecond Fiber Laser

Guide Rail

- Linear Guide Rail
- XYZ Axis Linear Ball Guide Rail
- VR Series Cross Roller Guide Rail
- TGHK Circular Guide Rail
- Precision Arc Cross Roller Guide Rail
- Anti-creep Cross Roller Guide Rail
- Cross Roller Guide Rail

Light Source

- Full Spectrum Light Source
- Transmissive Light Source
- Semiconductor Light Source
- Laser Light Source
- Industrial Vision Light Source
- Multifunctional High-speed Picosecond Pulse Light Source
- DNP Light Source
- Detector Light Source
- White Laser Series Light Source

Production & Manufacturing

Robot

- SMR Mobile Composite Robot
- Non-invasive Physical Examination Robot
- Single-Axis Robot
- Industrial Robot
- Robot Grinding and Polishing Machine
- XR Evaluation of Bionic Robot
- Six-degree-of-freedom Parallel Robot
- Robot Vacuum
- Screw Robot
- MID Composite Robot

Automation Equipment

- Flexible Gripper
- High-load Gripper
- Pneumatic Gripper
- High Vacuum Ball Valve
- XYZTR Manual Slide Table
- UVW Alignment Platform
- XY Micro-linear Motor Platform
- Precision Electric Linear Displacement Slide Table
- Axis Precision Electric Displacement Stage
- Fully Automatic Chip Four-sided Appearance Inspection Equipment
- Automated Standard Edition Sorter

Laser Equipment

- Handheld Laser Marker
- 3D Laser Marker
- Solder Ball Welding Machine
- Laser Solder Welding Machine
- Laser Cutting Machine
- Line Laser Profiler
- Laser Etching Equipment

Semiconductor Equipment

- Three-wavelength Spatial Optical Coupling Module
- Automatic Optical Path Coupling Machine
- Coupling Alignment System
- Chip Coupling System
- Butterfly Laser Automatic Coupling System
- Micron Die Bonder

Service Robot

Humanoid Robot

Industrial Robot

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Endoscope/Module

- Ultra-Thin Endoscope
- Medical Endoscope
- Rigid Medical Endoscope
- Endoscope
- Micro Medical Endoscope Module
- Endoscope Fluorescence Imaging Light Source Module
- 4K Endoscope Optical Module
- Binocular Near-Eye Display Optical Engine Module

Optical Lens

- Endoscope Lens
- Medical Lens
- Infrared Thermal Imaging Lens
- Sensor Wafer
- Ultraviolet Lens
- Wafer Lens
- Small-sized Lens

Lens

- Micro Lens
- Endoscopic Lens
- Infrared Lens
- Imaging Lens
- Fresnel Lens - LED Lens

Filter

- Beauty Machine Filter
- Long-wave Pass Filter
- Fluorescence Biochemical Analysis Filter
- Raman Filter
- Biomedical Engineering Filter
- Trap Filter

Light Source

- UV LED Surface Light Source
- Ultra-Wide Band Light Source
- White Laser Series Light Source
- Line Laser Light Source
- Multi-Channel High-Brightness LED Light Source
- Point Light Source
- High-Power White Light Source
- Infrared Light Source
- Full Spectrum Light Source
- Collimated LED Light Source

Optical Material & Component

- Light-Guiding Crystal
- Sapphire Crystal Rod
- Medical Laser Fiber
- Medical Health Product
- Ultra-Precision Optical Component
- Laser Beauty Instrument
- Sapphire Light Guide Block
- Quartz Glass Beauty Instrument Accessory Filter Tube
- Medical Liquid Flow Path and Optical Window

UV

- UV Chip
- UVC Sterilization LED Bead
- Deep Ultraviolet LED Chip
- Deep Ultraviolet LED Bead
- Ultraviolet Light-Emitting Diode

Medical Fiber

- Ho:YAG laser fiber
- Disposable Intraocular Laser Fiber
- In Vitro Diagnostic Instrument Fiber
- Detection Fiber

Laser Technology

Lasers

- Medical Lasers
- Dental Soft Tissue CO2 Lasers
- Energy-Adjustable Microchip Lasers
- Fiber-Coupled Lasers
- Diode
- Yellow Lasers
- Multi-Wavelength Medical Lasers
- Micron Lasers
- Picosecond Infrared Lasers

Laser Chip

- High-Power Semiconductor Laser Chip
- VCSEL Laser Chip
- High-Power Semiconductor Laser Bar

Laser Module

- Free-space RGB Laser Module
- Medical Semiconductor Fiber Laser Coupling Module
- Mid to Far-Infrared Laser Module

Sensor

- UV Sensor
- Endoscope CMOS Image Sensor
- Medical Force (Contact Force) Sensor
- 600-Megapixel Image Sensor
- Ultra-Low Power Fusion Vision Sensor

3D Vision

- iToF 3D Camera
- Passive Snapshot Monocular 3D Camera
- High-Precision RGBD Camera
- 3D Binocular Stereoscopic Vision Module

Production & Manufacturing

Laser Equipment

- Laser Cutting Equipment
- Laser Solder Ball Jet Solder Machine
- Dual-Station Laser Soldering Machine
- Intelligent Laser Welding System
- Mini LED Display Module Laser Repair Special Machine
- UV Laser Marking Machine
- Laser Etching Machine
- Picosecond Light Guide Arm

Robot

- SMR Mobile Composite Robot
- Intelligent Robot Polishing System
- Industrial Robot
- Parallel Six-Degree-of-Freedom Robot
- Non-Invasive Health Check Robot

Automation/Semiconductor Equipment

- Fully Automatic High Precision Eutectic Machine
- Semiconductor Cutting Equipment
- Fully Automatic Multifunctional Mounter
- Automatic Dispensing Mounter
- Online Temperature Monitoring Semiconductor Heating System
- Grinding Machine
- Glue Dispenser
- Soldering Equipment

Measuring & Test Instrument

- Smart AI 3D Facial Skin Detector
- Multifunctional Skin Polarized Laser Detection Equipment
- Electrical Safety and Light Safety Detection for Medical Product
- Endoscope-Specific Optical Transfer Function Measurement Instrument
- 3D Optical Profilometer
- Medical Endoscope Testing System Freeform Surface Measurement System
- 3D Optical Surface Shape Measurement System

Vacuum Coating Equipment

- Vacuum Coating Machine
- High Precision Electron Beam Evaporation Optical Coating Machine
- IBS Coating Machine
- Vacuum Coating Solution

Lens Assembly Equipment

- Optical Lens Full-Function High Precision Automatic Assembly Machine
- AA Precision Assembly Machine
- High-Definition Wide-Angle Lens Automatic Assembly Equipment
- Lens Compound Assembly Machine

Infrared Technology

- Human Body Temperature Sensing Far Infrared Lens
- Single-point Integrated Infrared Sensor Chip
- Thermal Imaging Far Infrared Lens Module
- Near-Infrared II Fluorescence Imager
- Laser-Pumped Terahertz Detection System

Display Technology

- 65" 8K Printed OLED Display
- Micro-LED Micro Display
- Micro Silicon-Based Display
- Silicon-Based OLED Mini Display

Medical Instrument/Equipment

Medical Monitoring/Detection

- Health Check Robot
- Facial Skin Detector
- Light Safety Detection
- Laser Detection Equipment

Optoelectronic Equipment

- Dot Matrix Laser Treatment System
- Multi-Frequency Anti-Aging System
- Photodynamic Therapy Machine
- LED Phototherapy Device

Microscope/Spectral Imaging

- Microscopic Instrument
- Microscope
- Fluorescence Imaging System
- Hyperspectral Imaging Camera
- Chip-Level Spectrometer
- Infrared Spectrometer
- Spectrum Imaging Instrument

Endoscopes/Medical Equipment/Medical Beauty Equipment/Medical Robot



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Optical Material & Component

Optical Material

- Aluminum/Lanthanum/Yttrium Oxide
- Magnesium Fluoride
- Lithium Niobate/Lithium Tantalate
- Grinding & Polishing Material
- Polishing/Grinding Pad
- Target Material
- Ceramic/Aluminum Substrate

Optical Material

- Quartz Material
- Display Material
- TOPM
- Curing Adhesive
- Resin
- Ink
- Insulating/Heat Dissipation Accessories

Optical Component

- Flat Optical Component
- Quartz Glass Optical Component
- Spherical/Aspherical Lens
- Polishing Slice
- Prism
- High Reflection Mirror
- Beamsplitter

Filter

- Optical Coated Filter
- Camera Filter
- Infrared Cut-off Filter
- Colored Filter
- Blue Glass Filter
- Narrow Band Filter
- ND Filter

Optical Lens

- Fresnel Lens
- Camera Lens
- Glass/Plastics Lens
- Optical Waveguide Lens
- AR/VR Curved Lens
- Infrared Optical Lens
- High Definition Anti-reflection Lens

Glass

- Blue Glass
- Glass Rod
- Colored Glass
- Screen Printed Glass
- Wafer-Level Glass
- Nano-Crystalline Glass
- Ultra-Hard Coated Optical Glass

Sapphire

- Wafer
- Square Tile
- Crystal Rod
- Sapphire Wafer
- Crystal Material
- Optical Window
- Light Guide Block

Coating Material

- Evaporation Coating Material
- Optical Coating
- Black Coating
- Absorptive Film
- Optical Grade Nano Anti-Fog Coating

Core Component

Camera Module

- Lens**
 - Biometric Recognition Camera
 - Laptop Camera
 - Ultra-short Focal Optical Lens
 - Video Conference Lens
 - AR/VR Lens
 - Machine Vision Lens
 - Projector Lens
 - TOF Lens
 - Chalcogenide Lens

- Module**
 - 3D Sensing Lens Module
 - Birdbath Optical Solution Module
 - Wide-angle Camera Lens Module
 - USB Camera Module
 - Hybrid Anti-Vibration Module
 - High-pixel Periscope Module
 - 6DOF Binocular Module
 - Sensor Shift

Light Sources/Spectrum Imaging

- Full-spectrum Light Source
- Integrating Sphere Light Source
- Transmissive Light Source
- Vision Surface Light Source
- UVLED Surface Light Source
- Multispectral Imaging Module
- Light Source for Image Testing

AR/VR

- All-in-One Solution**
 - See-through All-in-One Solution
 - Binocular Split-Type AR Solution
 - High-definition head-mounted 3D display
 - Lightweight Smart Glasses
 - Industrial AR Smart Glasses
 - AR Holographic Smart Goggles

Core Component

- AR/VR Optical Module
- Arrayed Waveguide Grating Module
- Waveguide Near-eye Display Module
- Monocular Near-eye Display Optical Module
- VR Pancake Optical Module
- AR Diffractive Waveguide
- 1D/2D Gratings Arrayed Waveguide Module

Sensor

3D Vision

- 3D dToF Sensor
- 3D Structured Light Vision Module
- 3D Binocular Stereo Vision Module
- 3D Imaging Core Component
- IoT Solution
- TOF Ranging Sensor

Display Technology

- Display Screen**
 - VR Pancake
 - Optical Waveguide AR Glasses
 - AR Optical Module Folding Screen
 - OLED/Mini LED/Micro LED Display
 - Laser TV/Projector
 - Glasses-free 3D Screen

LIDAR

- Robot Vacuum LIDAR Module
- Mechanical LIDAR
- Meta-surface LIDAR Module
- Consumer LIDAR
- DToF LIDAR
- UAV Integrated LIDAR
- Solid-state LIDAR

Display Panel/Module

- OLED
- Micro LED Display Chip
- Mini Display Module
- Glass Back Cover
- LCOS Module
- Display Optical Component

MEMS Sensor

- RGB Color Sensor
- Material Sensor
- NDIR CO2 Sensor
- 2D Electro-dynamic MEMS Mirror
- Digital Bone Conduction Microphone

VCSEL

- Multi-junction VCSEL Array
- Regular/Non-regular Array VCSEL Chip and Module
- VCSEL Semiconductor Laser Chip
- VCSEL Array for LIDAR
- Stacked built-in Driver VCSEL Packaging
- Next-generation Spectral Oxygen Sensing VCSEL
- Integrated Photoelectric Diode VCSEL
- VCSEL Projection Light Module

Image Sensor

- Time-of-Flight (ToF) CMOS Image Sensor
- Image sensor for smartphone main camera
- Contact Image Sensors (CIS) and Module

Infrared Technology

- Thermal Imaging Solution
- Pyroelectric Infrared Sensor
- Infrared Temperature Measurement Module

Optical Component / Optical Assembly

- Capacitor
- Ceramic Ferrule
- Fast Connector
- Ceramic Substrate/Housing
- Package Housing

Production & Manufacturing

Industrial/Flexible Robot

- Online Vision Adhesive Screw Locking Robot
- Robot Polishing System
- XR Evaluation Bionic Robot
- KK Module and Linear Module

Optical Processing Equipment

- Mirror Surface Processing of VR Eyeglass Molds
- Fully Automatic Camera Filter Film Attachment Machine
- Optical Waveguide Glue Dispenser
- Nanoimprint Machine
- Precision Arc Swing High-Speed Grinding/Polishing Machine

Lens Assembly Equipment

- Lens Assembly Line
- High-definition Wide-angle Lens Automatic Assembly Equipment
- AR/VR AA Precision Assembly Machine
- Fully Automatic AA Equipment
- Fully Automatic Assembly Line Equipment

Laser Processing Equipment/Lasers

- Laser Cutting Equipment
- Laser Solder Ball Welding Machine
- 3D Laser Marking Machine
- All-solid-state High-power Femtosecond Laser
- Red/Green/Blue Laser

Automation Equipment

- EFEM Wafer Detection Platform
- Fully Automatic High-speed Online Dispensing Machine
- High-speed Vertical Forming Back-Sealing Machine
- Pad Bending
- Unmanned Intelligent Packaging Production Line

Vacuum Coating Equipment

- Flexible Electronics Roll-to-roll Vacuum Coating Equipment
- Magnetron Sputtering Optical Coating Equipment
- Vacuum Coating Machine

Measuring & Test Instrument

- Zeiss Industrial Microscope Series
- 3D Optical Profiler
- Compact High Precision Optical Transfer Function Measurement Instrument
- Surface Topography Measurement Instrument Testing Chamber

Inspection Equipment

- Lens Parameter Detector
- Non-contact Detector
- Industrial Lens MTF Detector
- Lens Thickness Measurement Equipment

Part of APE Visiting Companies from Consumer Electronics Industry

Consumer Electronics

- | | | | |
|---------|--------|-----------|-----------|
| Apple | TCL | OPPO | TINNO |
| Sony | HUAWEI | iFLYTEK | BBK |
| Samsung | Xiaomi | Transsion | Panasonic |
| Lenovo | ZTE | KONKA | |

AR/VR

- | | | |
|-----------|---------|-------------|
| VIVO | LAWAKEN | Meta-Bounds |
| Tencent | Xreal | RAYNEO |
| Pico | DPVR | Guangli |
| ByteDance | Pimax | |

Smart Home

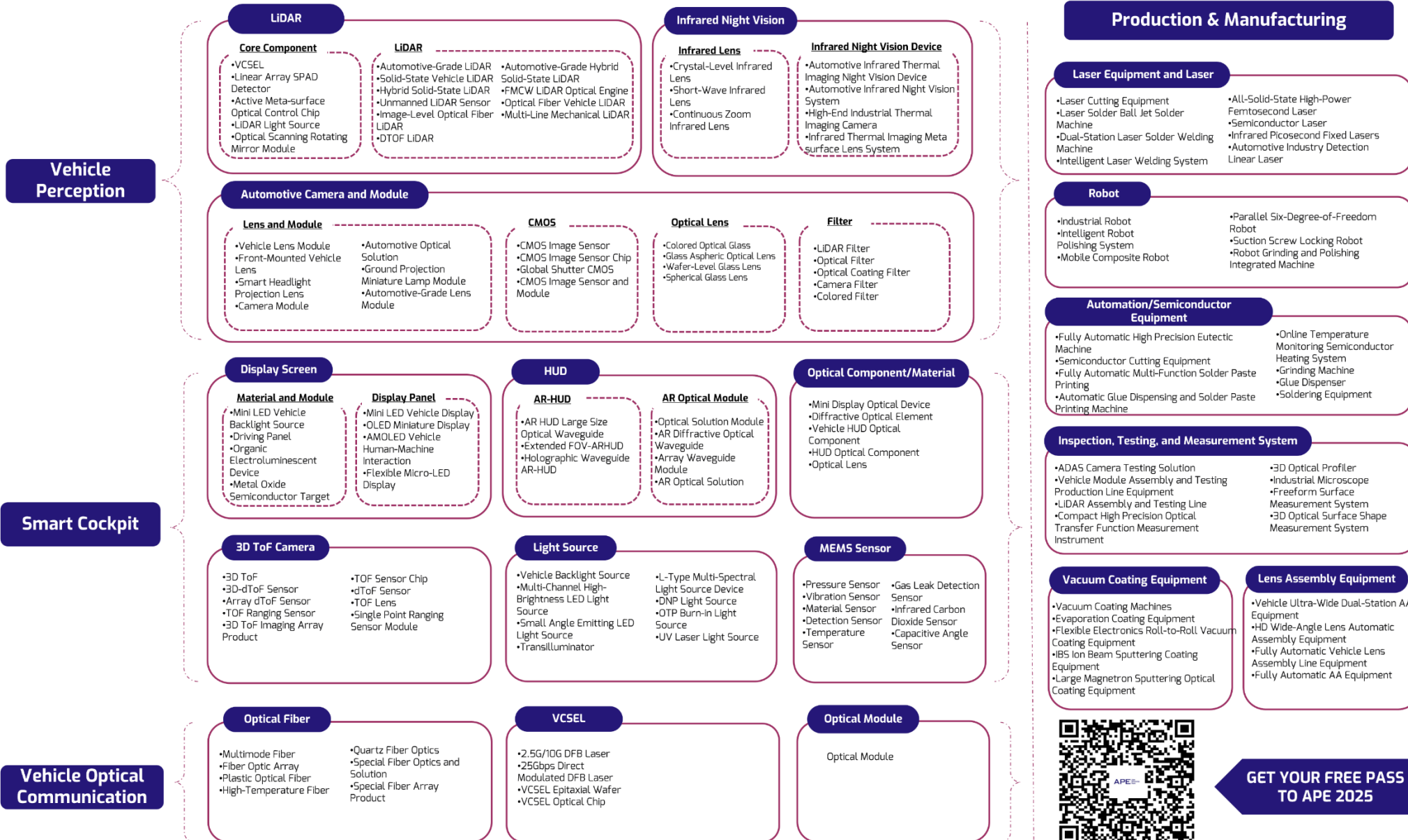
- | | |
|----------|---------|
| SKYWORTH | GREE |
| Gotech | Midea |
| NARWAL | FONTILE |
| DAIKIN | Hitachi |



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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

Optical Material

- Aspherical Lens
- Evaporation Coating Material
- Integrated Black Coating Material
- 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
- Conical 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

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

Infrared Thermal Imager

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

Thermal Imager

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

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

Production & Manufacturing



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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/Masurement Instrument

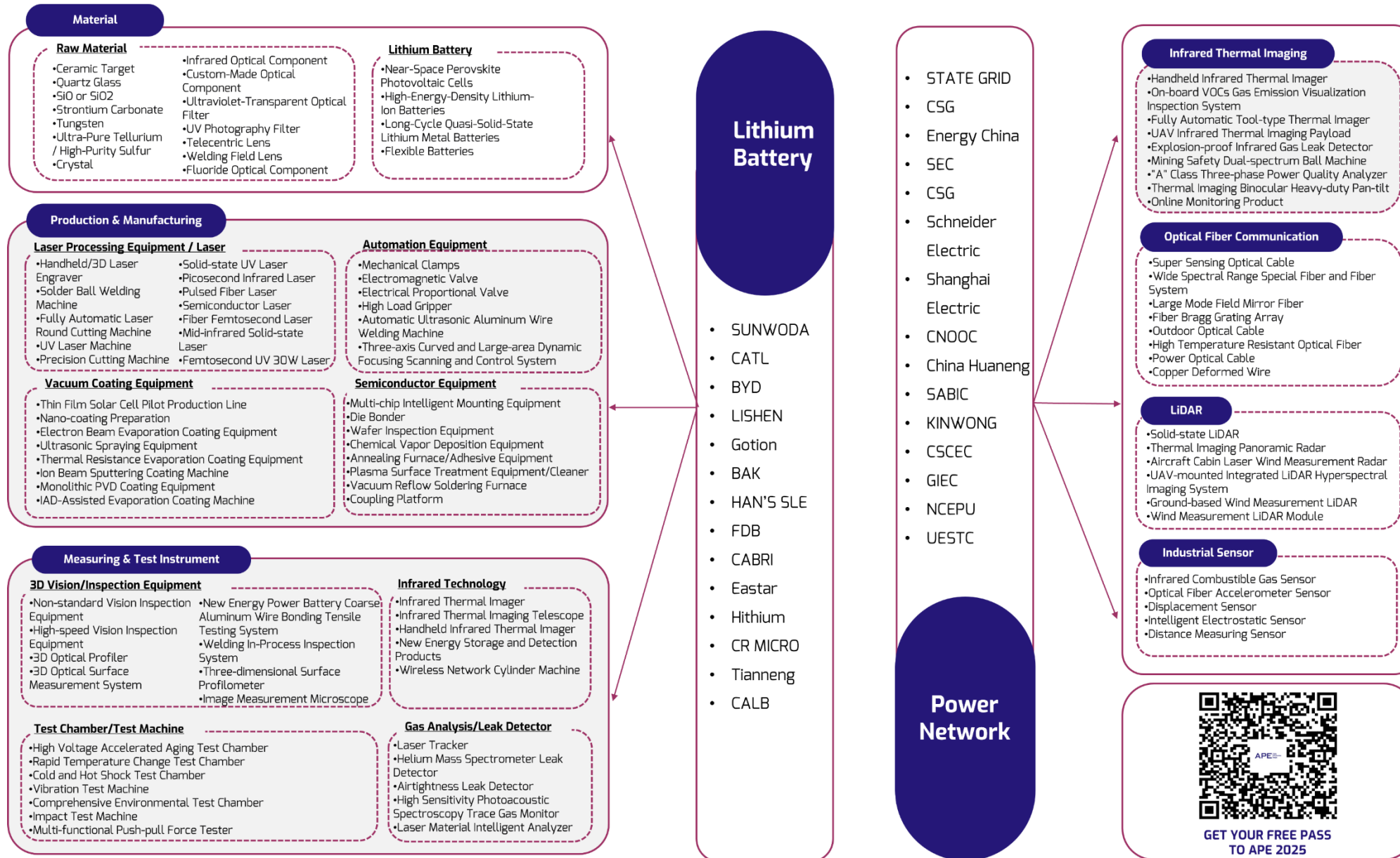
- AOI Intelligent Appearance Inspection Equipment
- Ultrasonic Non-Destructive Testing and Environmental Testing
- Non-Standard Vision Inspection Equipment
- Freeform Surface Measurement System
- Fully Automatic Image Measuring Instrument
- Optical Measurement System

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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Material/Component

Material

- Glass
- Ceramic
- Plastic
- Crystal
- Copper, Tungsten, Aluminum
- Neodymium-Iron-Boron Magnet
- Substrate
- Target Material
- Photoresist
- Coating
- Encapsulation Material
- Heat Dissipation Accessories
- Grinding Wheel
- Luminescent Material
- Coating Material
- Dielectric Material
- Polishing Material
- Thermal Conductive Material
- Printing Resin
- OLED Light-collecting High Refractive Index Film
- OLED Display Material
- Polyimide (PI) Material
- LED Substrate Wafer

Component

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



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Chip/Module

- Micro-LED Display Chip
- Mini Display Chip
- LED Chip
- Laser Chip
- Ground Projection Small Lighting Module
- Laser Lighting Module
- Projector Lens Module
- Semiconductor Laser Module
- Laser Engraving Module

Display

Display Terminal

- Foldable Phone Screen
- LCD Variable Curve Display
- Live Streaming Display Terminal
- Gaming Laptop Display
- Binocular Waveguide AR Glasses

- Movie Glasses
- Naked-eye 3D Holographic Display
- Flexible OLED In-vehicle HMI
- Mini LED In-vehicle Display
- Surgical Navigation and Positioning System

Micro Display

- OLED Micro Display
- Micro-LED Display
- Micro-Led Micro Display

Panel

- Micro/Mini-LED Driven Backplane
- TFT (AM) Driven Backplane
- Passive (PM) Driven Backplane
- Mini LED Backlight Copper Clad Board

AR/VR

All-in-One

- 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

Optical Module

- 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

- 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 Debubbler

Measuring & Test Instrument

- X-ray Photoelectron Spectrometer
- One-click Graphical Measurement Instrument
- Virtual Distance Measurement Instrument
- Rapid Ultra-high Resolution Two-photon Microscope
- Spectral Brightness and Colorimeter

Vacuum Coating Machine

- Electro-fluid-dynamic Spray Coating Equipment
- Vacuum Coating Equipment
- Evaporation Coating Machine

Laser Equipment/Automation

- 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
- Beneq Transform
- Slide Table

Optical Inspection Equipment

- Flash Measurement Instrument
- Spectrometer
- Phase Difference Tester
- Stress Birefringence Detection Equipment

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Traffic Guide

Marina Bay Sands Singapore

Address: 10 Bayfront Avenue, Singapore 018956

➤ Metro

Marina Bay Sands is located at Bayfront MRT station (CE1/DT16).

MRT services to/from Bayfront MRT station operate daily from approximately 6am to 12am midnight. The station connects to the Circle and Downtown Line of Singapore's Mass Rapid Transit (MRT) train system.

MRT Exits:

Exit C & D:

Sands Expo & Convention Centre (3-minute walk)

Exit E:

Sands Expo & Convention Centre

➤ Car & Taxi

Pick-Up/Drop-Off Points:

Outside Sands Expo & Convention Centre

➤ Car Park Entrance

Bayfront Link, next to Sands Expo & Convention Centre (South Entrance)



Hotel Reservation

For Hotel Reservation Only

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Service Hotline: +65 69110855

Email: enquiry@burnaby-solutions.com

For Hotel Reservations, visit:

https://register.burnaby-solutions.com/v2/booking/step1_all/352

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