

APE | Asia
Photonics
Expo

Held in:



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PRESHOW GUIDE 2025

2nd EDITION

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26 - 28 February 2025

Sands Expo and Convention Centre, Singapore

www.asiaphotonicsexpo.com



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#APE2025 in f X



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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** 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 |
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

- ACEXON TECHNOLOGIES
- ADVINNO TECHNOLOGIES
- APP SYSTEMS
- BOTE OPTICS
- DYMEK ASIA
- JD UNION
- KEMET
- LASER 21
- MMI SYSTEMS
- MOVEON TECHNOLOGIES
- OPTICAL GAGING
- OPTO PRECISION
- PRECISION OPTICAL SYSTEMS
- SD OPTICS
- SINGAPORE DYNAMIC OPTRONICS
- SINTEC OPTRONICS
- STELLENT NETWORKS
- WAVELENGTH OPTO-ELECTRONIC

EUROPE

- ACKTAR
- CHROMA TECHNOLOGY
- CIS FORSCHUNGSINSTITUT FÜR MIKROSENSORIK
- DELTA OPTICAL THINFILM
- DOPA DIAMOND TOOLS & OPTICS
- EUROPEAN PHOTONICS INDUSTRY CONSORTIUM
- HEIDELBERG INSTRUMENTS MIKROTECHNIK
- HOLOEYE PHOTONICS
- IBSEN PHOTONICS
- IMT MASKEN UND TEILUNGEN
- I-PHOTONICS
- IVAM MICROTECHNOLOGY NETWORK
- ACKTAR
- CHROMA TECHNOLOGY
- OPTOCRAFT
- SANDVIK OSPREY
- SPACEOPTIX
- W3+ FAIR

* Exhibitors are listed in alphabetical order



National Pavilions

Germany

- GERMAN FEDERAL MINISTRY FOR ECONOMIC AFFAIRS AND CLIMATE ACTION
- CUTTING EDGE COATINGS
- FIBERWARE GENERALUNTERNEHMEN FÜR NACHRICHTENTECHNIK
- INFRASOLID
- MICRO-HYBRID ELECTRONIC
- MÖLLER-WEDEL OPTICAL
- NANOSYSTEC
- POLYTEC
- RGB LASERSYSTEMS
- SENTECH INSTRUMENTS
- SIOS MEßTECHNIK

JAPAN/KOREA

- AGC
- CYBERNET SYSTEMS
- DAHE THERMO-MAGNETICS
- DBTEK
- DISCO HI-TEC
- FERROTEC SEMICONDUCTOR
- MICROVITA-INSTRUMENT
- PHOTONTECK
- SWCC
- WOORIRO

CHINA

- | | |
|-------------------------------|-------------------------------|
| • SIFOTONICS TECHNOLOGIES | • MH ELECTRONICS & TECHNOLOGY |
| • PHOGRain TECHNOLOGY | • GIAI PHOTONICS |
| • SINGPHOTONICS INTERNATIONAL | • INNOREV |
| • US CONEC | • YUANHENG |
| • HENG TONG OPTIC-ELECTRIC | • ULVAC |
| • FLYIN OPTRONICS | • IBRNTECH |
| • T&S COMMUNICATIONS | • XINGQING OPTICAL INSTRUMENT |
| • MRSI AUTOMATION | • RAYTRON MICROELECTRONICS |
| • HAN'S LASER | • HONGYANG |
| • EMGO-TECH TECHNOLOGY | • FOCUSLIGHT |
| • SHOURADIUM LASER | • SINCEVISION |
| • STRONG LASER | • GRUPA TECHNICZNA CODI |
| • ABNER-NANO | |

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.

Exhibitors include:

- ChengDu Data Automation System
- QuantumCTek
- SpinQ Technology
- ZQUANTUM

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.

Exhibitors include:

- Baiteng Electronic Technology
- HK CARLSON
- SINCEVISION

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.

Exhibitors include:

- Baofeng Metallizer
- Laiku (Suzhou) Semiconductor
- Shanghai Vacuum Society
- ULVAC



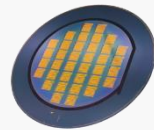
Product Preview – Optical Communication

ADVANCED FIBER
RESOURCES
BOOTH: B116



Hermetic Fiber
Feedthrough

ANPL OPTOELECTRONICS
BOOTH: A008



Thin Film Lithium
Niobate Modulator Chips

BANDWIDTH 10
BOOTH: B121



VCSEL Based OCT
Swept Source

BOZHON
SEMICONDUCTOR
BOOTH: A326



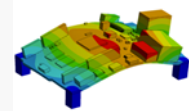
MicroStar Series
EF8621-Plus Eutectic Die
Bonding Machine

CUTTING EDGE
COATINGS
BOOTH: A122



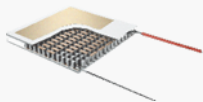
Navigator 1000

CYBERNET SYSTEMS
BOOTH: B131



Ansys Mechanical

DAHE THERMO-MAGNETICS
BOOTH: B132



TEC

DBTEK
BOOTH: B104, B105



GT 40

DEVISER INSTRUMENTS
BOOTH: A331



AE8600 Optical
Spectrum Analyzer
600-1700nm

ETERN
BOOTH: A306



50G PON Z-Block

EVATEC AG
BOOTH: B304



SOLARIS

FERROTEC
SEMICONDUCTOR
BOOTH: B135



Copper Bonded
Ceramic Substrates

* Exhibitors listed in alphabetic order

[>>> View More Products](#)



Product Preview – Optical Communication

FLYIN GROUP
BOOTH: A204, A205



Optical Transceiver

INFRAOLID
BOOTH: A125



HIS550R-B

JOIN-MU INTELLIGENT
TECHNOLOGY
BOOTH: A523



MAP900 Multi-
channels IL & RL
Test System

LUXIC TECHNOLOGY
BOOTH: B122



4x200G MZM Driver
and TIA

MMI SYSTEMS
BOOTH: B321



Wafer Sorter
Inspection System
(WSI)

MRSI AUTOMATION
BOOTH: B111



MRSI-A-L Active
Aligner

NANOSYTEC
BOOTH: A123



NanoTest Optical
Characterization
Systems

OPTO-INTEL
TECHNOLOGIES
BOOTH: A532



Precision Automatic
Die Bonder Series

OPTOSIGMA
BOOTH: B206



Precision Alignment

PHOGRAIN
BOOTH: A202, A203



4X200GBaud PIN PD
CHIP

POLYTEC
BOOTH: A221



TopMap Micro.View® |
Optical Surface Profiler

RGB LASERSYSTEMS
BOOTH: A126



Lambda Beam Wavelength
Laser Systems

* Exhibitors listed in alphabetic order

[>>> View More Products](#)



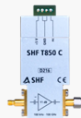
Product Preview – Optical Communication

SIFOTONICS
TECHNOLOGIES
BOOTH: A536



200Gb/Lambda SiPho
PAM4 PIC

SINGPHOTONICS
BOOTH: A222, A223



100GHz Ultra
Broadband
Amplifiers T850 C

STELLENT NETWORKS
BOOTH: B331



Quantum DWDM
Mux Demux

SUFASTECH
TECHNOLOGY
BOOTH: C512



Oscilloscope

T&S COMMUNICATIONS
BOOTH: A105, A106



800G QSFP-DD
Fiber Optic
Transceiver

TCPACK ELECTRONIC
TECHNOLOGY
BOOTH: A006



SOP

TERAHOP
BOOTH: B112, B113



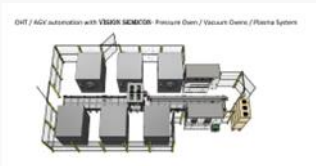
1.6T Series Optical
Transceivers

US CONEC
BOOTH: B125



MMC Connector

WKK DISTRIBUTION
BOOTH: B123



Automation with
Plasma and Ovens

WOORIRO
BOOTH: B103



SPAD (Single-Photon
Avalanche Diode)

XIN GIANT MACRO
INTELLIGENT TECHNOLOGY
BOOTH: A311, A312



Fiber Jumper Series

YOKOGAWA
BOOTH: B305



AQ6380 Highest
Performance Optical
Spectrum Analyzer

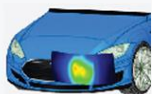
* Exhibitors listed in alphabetic order

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Product Preview – Precision Optics

ADVINNO
TECHNOLOGIES
BOOTH: B232



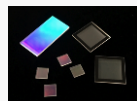
Lumerical & SPEOS

AFISY TECHNOLOGIES
BOOTH: D313



Ion Beam Figuring
Machine For
Precision Optics

AGC
BOOTH: B133



Diffractive Optical
Element (DOE)

APP SYSTEMS
BOOTH: B231



Leybold Optics LTE 700
Vacuum Coaters

ARCHER OPTX
BOOTH: B124



PerfectLens® Molded
Glass Aspheric Lens

BOARDSTONE
INTELLIGENT
BOOTH: C104



Image Dimensional
Measurement
System

BOXIN PHOTOELECTRIC
BOOTH: D212, D213



Optical Components

CPG OPTICS
BOOTH: B003



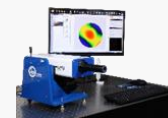
optical lens assembly

DISCO HI-TEC
BOOTH: B134



KKM Service

DYMEK ASIA
BOOTH: B314



4D PhaseCam

EDMUND OPTICS
BOOTH: B201



Filter Optics

GERMANLITHO
BOOTH: C101



GL P2 CLIV

* Exhibitors listed in alphabetic order

[>>> View More Products](#)



Product Preview – Precision Optics

GLITTER OPTICS
BOOTH: D101



Optical Components:
Cylindrical Lenses,
spherical Lenses, toric
Lense, prisms, Windows,
Mirrors, Filters And So On.

HG OPTRONICS
BOOTH: B001



High Precision
Spherical And Flat
Optics Components

HITRONICS
TECHNOLOGIES
BOOTH: B005, B006



Telecentric Lens

HONGSHI INTELLIGENT
TECHNOLOGY
BOOTH: C225



AR Glass

KEMET
BOOTH: B336



Vacuum Solvent
Cleaning machines

KINGDING OPTICAL
TECHNOLOGY
BOOTH: C533



Aspheric Lens
Precision Molding
Machine (MD13-90)

LBD TECHNOLOGY
BOOTH: C334



Ion Beam Etching
Machine

L-CHASER OPTICS
BOOTH: D103



Precision Measuring Mirror

MICROVITA-INSTRUMENT
BOOTH: B106



RF Ion Source

MITUTOYO
BOOTH: B301



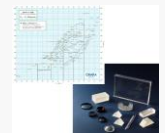
WLI-U (White Light
Interferometer-Unit)

MOVEON TECHNOLOGIES
BOOTH: B332



Precision Optics and
Module Assemblies

OHARA OPTICAL
BOOTH: B004



High precision
optical glass

* Exhibitors listed in alphabetic order

[>>> View More Products](#)



Product Preview – Precision Optics

OPTICAL GAGING
BOOTH: B311



OGP SmartScope E7

OPTICREATE
TECHNOLOGY
BOOTH: D112



Optical Lenses

OPTO PRECISION
BOOTH: B236



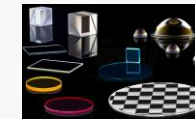
Precision Optical
Coating Service

PANASONIC
FACTORY SOLUTIONS
BOOTH: B303



UA3P

PRECISION OPTICAL
SYSTEMS
BOOTH: B313



Customized Optical
Components

SATISLOH ASIA
BOOTH: C223



SPM-10/SPS-10
Grinding & Polishing

SD OPTICS
BOOTH: B214



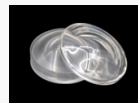
Infrared Optics

SINGAPORE DYNAMIC
OPTRONICS
BOOTH: B233



Optical back-end processes,
optics bonding and edge
blackening

SPRECISION
TECHNOLOGY
BOOTH: C333



Cold working of glass
aspheric surface

SWCC
BOOTH: B136



High-Strength Ultra-
Fine Copper Alloy
Wire

TZTEK TECHNOLOGY
BOOTH: A321, A322



VMG Gantry Video
Measuring Machine

WAVELENGTH
OPTO-ELECTRONIC
BOOTH: B221



SWIR, MWIR & LWIR
Lenses

* Exhibitors listed in alphabetic order

[>>> View More Products](#)



Product Preview – Laser

ARIMA LASERS
BOOTH: C131



Laser Beam Scanning

EMGO-TECH
TECHNOLOGY
BOOTH: C115



500W In-Line Isolator

HAN'S LASER
BOOTH: C226, C227



Laser Marking
Machine HM20

HUARUIKE AUTOMATION
BOOTH: C531



Automatic Soldering
Machine

LASER 21
BOOTH: B222



SuperK CHROMATUNE –
the World's broadest
tunable laser

MOJI-NANO TECHNOLOGY
BOOTH: D203



Maskless Direct Writing
Lithography—UV-Smart

PRECISION
TECHNOLOGIES
BOOTH: B202



miniTA, miniECL, DFB Laser
Diodes, Tapered Amplifiers,
Multimode Laser Diodes,
Gain

SHOURADIUM LASER
BOOTH: C005



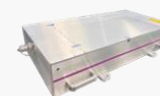
Fully Automatic IC Plastic
Package Laser Cutting
Machine

SINTEC OPTRONICS
BOOTH: B315



Laser Cleaning Machine

STRONG LASER
ADVANCED EQUIPMENT
BOOTH: A235



30W UV Femtosecond
Laser

VILASER
BOOTH: C525



Laser Solder Ball Welding
Machine

XK PHOTONICS
BOOTH: C231



Small NA Blue Laser
Module

* Exhibitors listed in alphabetic order

[>>> View More Products](#)



Product Preview – Infrared/Intelligent Sensing

ATOMAN
SEMICONDUCTOR
BOOTH: D223



InP APD

CHANGELIGHT
BOOTH: D314



Data Communication
VCSEL

FOCUSLIGHT (DG)
MICROOPTICS
BOOTH: C121



V Groove

HAKUTO
BOOTH: B506



Photon Multiplier
Tube (PMT)

HK CARLSON INDUSTRY
BOOTH: D304



General Semiconductor
Etcher

HONPHO TECHNOLOGY
BOOTH: C315



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

IRLENS
OPTOELECTRONIC
BOOTH: C501



MWIR Continuous
Zoom IR Lens Z34C

ISTAR TECHNOLOGY
EQUIPMENT
BOOTH: D205



iNS series Step and
Repeat Nano-Imprinter

RAYTRON
MICROELECTRONICS
BOOTH: B536



INS-101L2 Line Scan
SWIR Camera

SINCEVISION
BOOTH: D306



High-Speed Camera-
SH3-108

SMARTCORE
BOOTH: C006



Ultra-narrow
Linewidth Lasers

VISION INFRARED
BOOTH: D509



Surveillance Lenses

* Exhibitors listed in alphabetic order

[>>> View More Products](#)



Product Preview – Quantum/Display

DATA AUTOMATION
SYSTEM TECHNOLOGIES
BOOTH: A114



Cryogenic
Environment And
Devices

DATA AUTOMATION
SYSTEM TECHNOLOGIES
BOOTH: A114



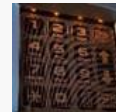
Scalable & Low-latency
Quantum Computing
Measurement& Control System
With Feedback Function

GRUPA TECHNICZNA CODI
BOOTH: C303



Intercom with a self-
disinfecting touch panel

GRUPA TECHNICZNA CODI
BOOTH: C303



Self-disinfecting
capacitive keyboard

QUANTUMCTEK
BOOTH: A116



ez-Q Fridge-
Platform400

QUANTUMCTEK
BOOTH: A116



ez-Q Engine 2.0

SPINQ TECHNOLOGY
BOOTH: A111



SPINQ Gemini Lab

SPINQ TECHNOLOGY
BOOTH: A111



SPINQ QPU

UV TECHNOLOGY
BOOTH: D226



UV Led Spot Curing
System

UV TECHNOLOGY
BOOTH: D226



UV LED Linear
Light Source

ZQUANTUM
BOOTH: A115



Guangjia Series
Quantum+ Security

ZQUANTUM
BOOTH: A115



Aurora ZQ-QC530

* Exhibitors listed in alphabetic order

[>>> View More Products](#)



Conference List

Date	Time	Conference Room	Time	Technical Theatre
26 February	10:00-11:00	2025 Asia Photonics Expo Opening Ceremony	13:00-16:00	Machine Vision and Robotics Enabling Industrial Intelligent Manufacturing Forum
	13:00-17:30	Quantum Singapore 2025	16:15-17:45	EPIC Tech Watch
27 February	9:00-17:00	Photonics@SG 2025 Conference	10:00-12:00	2025 Photonics Empowering Electric Vehicle Technology Forum
			14:00-17:00	2025 EUROPE meets ASIA - Innovation in Photonics by W3+, IVAM & EPIC
28 February	9:00-12:00	Forum on Advanced Photonics and Flat Optics	10:00-12:00	Photonics Technology Empowering Semiconductor Manufacturing Forum
	14:00-16:00	Asia Semiconductor Conference		

[>>>Conference List up to date](#)



Concurrent Conferences

Quantum Singapore 2025

Time: 26 February 2025 Venue: Conference Room

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.

Time	Topics	Speakers
13:30-13:50	Welcome & Opening Remarks	QIU, Cheng Wei, Professor, NUS, Department of Electrical and Computer Engineering
13:50-14:10	Latest research of 2D materials to generate quantum entangled photon pairs	Gao Weibo, Professor, NTU, QUASAR, EEE&SPMS
14:10-14:30	To The Edge of Quantum Future	Wenhao Chu, Owner of Quantum Cloud Service Products, China Telecom Quantum Information Technology Group Co. Ltd
14:30-14:50	Practical Quantum Computing and Quantum-Safe Solutions	Leilei Huang, CEO, ZQuantum Technology Ltd
14:50-15:50	Next-gen Supercomputing with Hybrid Quantum Computing from Infrastructure to Applications	<ul style="list-style-type: none"> • Jie (Roger) Luo, President and Co-Founder, Anyon Technology • Di (Prof) Zhu, NUS MSE & CQT • Georgios Korpas, HSBC Labs • Jun Ye, Quantum Innovation Centre
15:50-16:10	Towards Global Quantum Networks: The Next Generation of Quantum Communication	Dr. Carlos Andres Melo Luna, Group Leader, Fraunhofer IOF, Institute for Applied Optics and Precision Engineering
16:10-16:30	Variational Quantum Circuits for Large-Scale Computing Systems	Huck Yang, Sr. Research Scientist, NVIDIA
16:30-16:50	Presentation on cutting-edge research and 2024 Global Future Industry Index Report Release	Chris Zou, Partner, Senior Technology & Market Analyst, ICV

[>>>More details up to date](#)



Concurrent Conferences

Machine Vision and Robotics Enabling Industrial Intelligent Manufacturing Forum

Time: 26 February 2025 Venue: Technical Theatre

The forum will gather renowned companies from the fields of industrial robots, machine vision, and optical inspection, testing and measurement 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”.

Time	Topics	Speakers
13:00-13:20	Image Sensing and Artificial Intelligence (AI) Technologies in Machine Vision Applications	Chen Jung Tsai, Chief Director, Hong Kong Applied Science And Technology Research Institute (ASTRI).
13:20-13:40	Exploration of the Application of High Speed Cameras in Scientific Research and Industrial Manufacturing	Arthur Wang, Product Manager, SinceVision.
13:40-14:00	T2SL Infrared Detector Technology and Optical Gas Imaging (OGI)	Mr. James Zhan, KT Photonics/Wavelength Opto-Electronic.
14:00-14:20	Industrial Visual Inspections via Learning with Less Data	Xun Xu, Senior Scientist, Institute for Infocomm Research (I2R), A-STAR.
14:20-14:40	Mitutoyo TAGLens – Ultra Deep Focus Eliminates Conventional Lens Limitations	Jerry R McCormick, Vision Product Specialist, Mitutoyo Asia Pacific/Mitutoyo Vietnam.
14:40-15:00	The Development Direction Of Intelligent Industrial Lenses	Martin Lee, Asia/Europe Business Director, Changchun Boxin Photoelectric Co., Ltd.
15:00-15:20	Low power FMCW Flash Imaging to Enhance 3D Optical Sensing	Sandrine CATROU, VP Marketing and Strategic Partnerships, CEA-Leti.
15:20-15:40	Theoretical Optical Measurement/Metrology	Qian Kemao, Associate Professor, Nanyang Technological University.

[>>>More details up to date](#)



Concurrent Conferences

2025 EPIC - Tech Watch

Time: 26 February 2025 Venue: Technical Theatre

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.

Time	Topics	Speakers
16:15-16:20	Welcoming by the moderators	Carlos Lee, Director General at EPIC – European Photonics Industry Consortium(Belgium/Europe)
16:20-17:45	Innovative Pathways: From Large-Scale Manufacturing to Micro-Nano Photonics	Myun-Sik Kim, Principal Business Development Manager, Leister International & Eric Ling, Business Development Director, Axetris
	Adhesives for Silicon Photonics / Photonic Integrated Circuits (PIC)	Gabriel Yap, Regional Sales Manager Singapore & Business Development Manager Asia,DELO
	Unlocking the Potential of Wafer-Level Technology for Emerging Applications	Lichen Sun, Product Line Manager of Global Photonics Foundry Division, Focuslight
	How Femtosecond Lasers Are Changing Industries Today	Dariusz Swierad, Sales and Marketig Director, Fluence Technology
	Innovative Fiber Solutions for Life Photonics in 0.3-16µm Range	Viacheslav Artyushenko, Founder & Senior Adviser, art Photonics
	Evatec Photonics Solutions	Patrick Liu, Technical Marketing Manager, Evatec

[>>>More details up to date](#)



Concurrent Conferences

Photonics@SG 2025 Conference

Time: 27 February 2025 Venue: Conference Room

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.

Plenary Speakers



Dr Radha Nagarajan
Senior Vice President and Chief
Technology Officer of Cloud Optics Group
Marvell



Dr Haisheng Rong
Senior Principal Scientist
Intel

Conference Chair



Assistant Professor Brian Sia Jia Xu
School of Electrical and Electronic Engineering
Nanyang Technological University Singapore

Invited Speakers



Asst Prof Sanghoon Chae
Nanyang Technological University
Singapore



Asst Prof Guangwei Hu
Nanyang Technological University
Singapore



Dr Jia Lianxi
Director
LightIC Technologies



Dr Luo Xianshu
VP, Advanced Photonics Platform
Technology & Principal Scientist
NSTIC & Institute of Microelectronics,
A*STAR



Dr Louis Martin-Monier
Scientist and Technologist
Massachusetts Institute of Technology



Dr Diana Mojahed
Founder & CEO
Lightfinder



Mr Ramana Pamidighantam
CTO & Co-Founder
LightSpeed Photonics



Dr Sajay B G
Senior Scientist
Institute of Microelectronics
A*STAR



Assoc Prof Dawn Tan
Singapore University of
Technology and Design



Dr Akira Ueno
Principal Researcher
AGC



Dr Wang Qian
Principal Scientist
Institute of Materials Research
and Engineering, A*STAR



Assoc Prof Guangya Zhou
National University of Singapore

[>>>More details](#)



Concurrent Conferences

2025 Photonics Empowering Electric Vehicle Technology Forum

Time: 27 February 2025 Venue: Technical Theatre

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.

Time	Topics	Speakers
10:00-10:20	Current Status of E-Mobility Transition and Preparations for Connected and Autonomous Vehicles in Thailand	Assoc. Prof. Dr. YOSSIPONG LAOONUAL, Assistant to the President for Sustainability at King Mongkut's University of Technology Thonburi (KMUTT) and Honorary Chairman of Electric Vehicle of Association of Thailand (EVAT)
10:20-10:40	Driving Clarity: How Lenses Withstand the Demands of Autonomous Racing	Gary Ng Jui Meng, Technical Sales Manager, Edmund Optics Singapore Pte Ltd
10:40-11:00	MicroLED technology empowers car computers, making information acquisition more efficient and driving safer and more reliable	LiuYi, Deputy General Manager of New Market Development, Hongshi Intelligent Technology Co., LTD
11:00- 11:20	Raytron's Thermal Sensing Technology for Automotive Applications	Fushuai Liu, Marketing and business development manager, Raytron Microelectronics
11:20- 11:40	TBA	ASTRI
11:40-12:00	TBA	HKPC
12:00-12:20	TBA	Yole Group

[>>>More details up to date](#)



Concurrent Conferences

2025 EUROPE meets ASIA - Innovation in Photonics by W3+, IVAM & EPIC

Time: 27 February 2025 Venue: Technical Theatre

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.

Time	Topics	Speakers
Session Chair: Carlos Lee, EPIC - European Photonics Industry Consortium, Paris, FR		
14:00	Opening EUROPE meets ASIA - Innovation in Photonics by W3+, IVAM & EPIC	Orkide Karasu, IVAM Microtechnology Network, Dortmund, DE Carlos Lee, EPIC - European Photonics Industry Consortium, Paris, FR
14:10	Optics Testing and Laser Beam Characterization Based on Precision Wavefront Measurements	Dr. Christian Brock, Optocraft GmbH, Erlangen, DE
14:25	Multifunctional Microfluidic Components	Mike Bade, IMT microtechnologies AG, Greifensee, CH
14:40	Optical Filters for Semiconductor Inspection	Dr. Georg Draude, Chroma Technology Corp, Bellows Falls, US
14:55	I-Photonics - Thin-Film Technologies & Vacuum Coating Systems	Hanna Bachyla, I-Photonics, Avižieniai, LT
15:10	Heidelberg Instruments Maskless Lithography for Industry and R&D	Wolfgang Meixner, Heidelberg Instruments Mikrotechnik GmbH, Heidelberg, DE

[>>>More details up to date](#)



Concurrent Conferences

2025 EUROPE meets ASIA - Innovation in Photonics by W3+, IVAM & EPIC

Time: 27 February 2025 Venue: Technical Theatre

Time	Topics	Speakers
15:25	Maximizing Photonic Performance with Acktar's Ultra-Black Coatings	Chen Orenshtein, ACM coatings, Naumburg, DE
15:40	Photonic Quantum Sensor Based on Diamond NV-Centers – Hybrid Integration and Performance Evaluation	Thomas Ortlepp, CiS Reseach Institute for Microsensor Systems GmbH, Erfurt, DE
15:55	Ultra-Precise Metal Optics for Applications in Space and Industry	Dr. Matthias Beier, SPACEOPTIX GmbH, Jena, DE
16:10	Latest Spatial Light Modulator Developments from HOLOEYE	Philip Engel, HOLOEYE Photonics AG, Berlin
16:25	TBA	Dr. Oliver Pust, Delta Optical Thin Film A/S, Hørsholm, DK
16:40	TBA	TBA
16:55	Closing EUROPE meets ASIA - Innovation in Photonics by W3+, IVAM & EPIC	Carlos Lee, EPIC - European Photonics Industry Consortium, Paris, FR
17:10	End of Session	

[>>>More details up to date](#)



Concurrent Conferences

Photonics Technology Empowering Semiconductor Manufacturing Forum

Time: 28 February 2025 Venue: Technical Theatre

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.

Time	Topics	Speakers
10:00-10:20	Large-area Ion Beam Sputtering Coatings	Dr. Kai Starke, CEO, Cutting Edge Coatings GmbH.
10:20-10:40	Laser Cleaning of Adhesive Residues on Chase Surfaces in ASA Lid Attachment Process	Dr. Jiao Jiao, Chairman, Suzhou MetLaser Intelligent Technology Co., Ltd.
10:40-11:00	Thin Film Coatings for Augmented Reality and Precision Optics Applications	Kunz, Alexander, Sales Manager Precision Optics, Bühler Alzenau GmbH.
11:00-11:20	Design Co-packaged Optics with Ansys Multiphysics Solutions	Nikhil Dhingra, Senior Application Engineer, Ansys.
11:20-11:40	Spectral Synergy: Harnessing the Power of Semiconductor Laser Technology for next generation Photonics and Quantum Applications	Sandeep Battula, Co-Founder, Qualivon Technologies Pvt. Ltd.
11:40-12:00	TBC	

[>>>More details up to date](#)



Concurrent Conferences

Forum on Advanced Photonics and Flat Optics

Time: 28 February 2025 Venue: Conference Room

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.

Time	Topics	Speakers
9:00-9:45	Breakfast	
9:45-10:00	Opening Speech	Prof. Yeo Yee Chia, Deputy Chief Executive (Innovation & Enterprise), A*STAR Executive Director, National Semiconductor Translation & Innovation Center (NSTIC)
10:00-10:15	Flat Optics: A Paradigm Shift in Optical Technologies	Dr Ramon Jose Paniagua Dominguez, Principal Scientist, National Semiconductor Translation & Innovation Center (NSTIC)
10:15- 10:30	Breakthrough Existing Optics Limitations with Metaoptics	Mr Aloysius Chua, Projects Director, MetaOptics Technologies Pte Ltd
10:30-10:45	Quo vadis, Metasurfaces?	Prof. Qiu Chengwei, Department of Electrical & Computer Engineering, NUS
10:45-11:15	Tea Break	
11:15-11:30	Photonic Heterogenous Integration through Die-to-Wafer Bonding	Dr Lim Leh Woon, Senior Scientist, National Semiconductor Translation & Innovation Center (NSTIC)
11:30-11:45	Advanced Photonic ECL Laser for Compact & High-Performance FMCW LiDAR	Dr Victor Li Dongdong Lead Scientist, Delta Electronics Int'l (Singapore) Pte Ltd
11:45-12:00	Electrically-driven, Chip-scale Dual-comb Spectrometer driven by Frequency-modulated Locking	Asst. Prof. Brian Sia, School of Electrical & Electronic Engineering, NTU
12:00-12:05	Closing Remarks	Assoc. Prof. Ang Kah Wee Forum Chair, National University of Singapore

[>>>More details up to date](#)



Concurrent Conferences

Asia Semiconductor Conference

Time: 28 February 2025 Venue: Conference Room

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.

Time	Topics	Speakers
13:00-13:20	Technology Breakthrough in Quantum, Photonics and AI as an Inflection Point	
13:20-13:40	Applications and Challenges of Integrated Photonics	
13:40-14:00	Scaling With Photonics	Jagadish CV, CEO of Advanced Micro Foundry Pte Ltd
14:00-14:20	Emerging Trends in Nanophotonic PICs	Yu Qing Jiao Professor, Photonic Integration Group at University of Eindhoven
14:20-14:55	Strengthening the Ecosystem for Integrated Photonics	Richard Hueners, Chief Commercial Officer at Palomar Technologies Terry Teh, Director of Advinno Technologies René Jonker, Executive Vice President and General Manager, Edge and Cloud AI Division at Soitec Microelectronics Singapore Pte Ltd
14:55-15:00	Closing Remarks	Wee Seng Ang Executive Director of Singapore Semiconductor Industry Association
14:55-16:00	Networking	

[>>>More details up to date](#)



Concurrent Activities

Site Tour

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.

Site Tour 1

Date: 26 February 2025, 1:00 PM – 5:30 PM

Venue: [Photonics Institute \(TPI\), Nanyang Technological University Singapore](#) - [Wavelength Opto-Electronic \(S\) Pet Ltd](#)

Time	Agenda	Venue
1:30PM	Transport pick up at MBS	Sands Expo and Convention Centre (Marina Bay Sands)
1:30PM- 2:00PM	Arrival at The Photonics Institute (TPI), Nanyang Technological University Singapore Welcome Address & Introduction to The Photonics Institute	50 Nanyang Avenue, Carpark P, Singapore 639798 The Photonics Institute
2:25PM -3:15PM	Facility Tour (Part 1) - 20 minutes Group A: Centre for Micro- & Nano-Electronics (CMNE) Group B: Centre for Optical Fibre Technology (COFT)	
3:15PM - 3:30PM	Gather at TPI for Group photo-taking	
3:30PM -4:00PM	Transport pick up to Wavelength Opto-Electronic (S) Pte Ltd	Blk 2 Bukit Batok St. 24 #07-18, Skytech Building, Singapore 659480
4:00PM - 5:30PM	Visit Wavelength Opto-Electronic (S) Pte Ltd	



Concurrent Activities

Site Tour

Site Tour 2

Date: 28 February 2025, 1:00 PM – 5:30 PM

Venue: [PBA Systems](#) - [National Semiconductor Translation and Innovation Centre \(NSTIC\)](#)

Time	Agenda	Venue
1:30PM	Transport pick up at MBS	Sands Expo and Convention Centre (Marina Bay Sands)
1:30PM- 2:00PM	Arrival at PBA Systems	PBA Systems
	Welcome Address & Introduction to PBA Systems	
	Visit PBA Systems	
2:25PM -3:15PM	Gather at PBA Systems for Group photo-taking	
3:15PM - 3:30PM	Transport pick up to National Semiconductor Translation and Innovation Centre (NSTIC)	National Semiconductor Translation and Innovation Centre (NSTIC)
3:30PM -4:00PM	Visit National Semiconductor Translation and Innovation Centre (NSTIC)	
4:00PM – 5:30PM		



Concurrent Activities

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: 16:30-18:00

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

Attendee: All visitors & exhibitors



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: 18:00-21:00





Connect with Over 5,000 Industry Peers at APE 2025

Part of APE 2025 Visitor Registration List

(updated as of 24 Jan 2025)

- | | | | | |
|-----------------------|----------------------------|------------------------|---------------------------|-------------------------------|
| • 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

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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**.

APE provides verified buyers with a **FREE business matchmaking** service by arranging on-site meetings in the VIP lounge.

[>>> Submit your sourcing request](#)



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

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

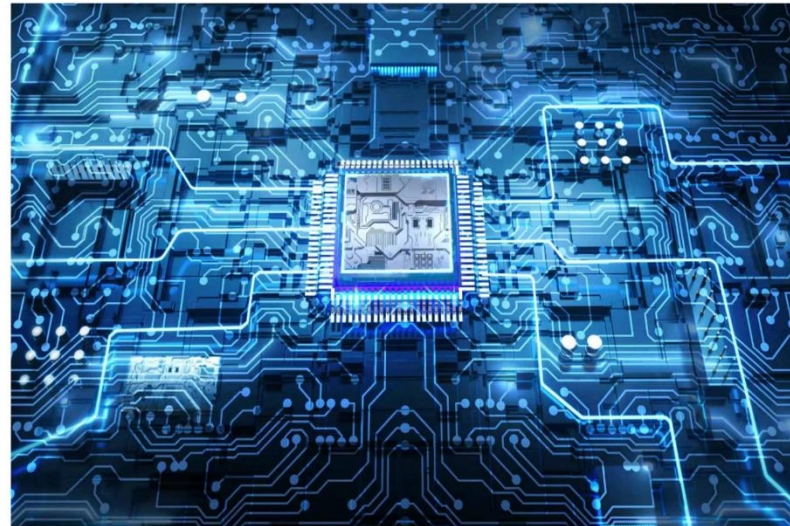
- Sputtering Target
- Metal Oxide Semiconductor Target
- UV Debonding Film

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
- UVLED 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

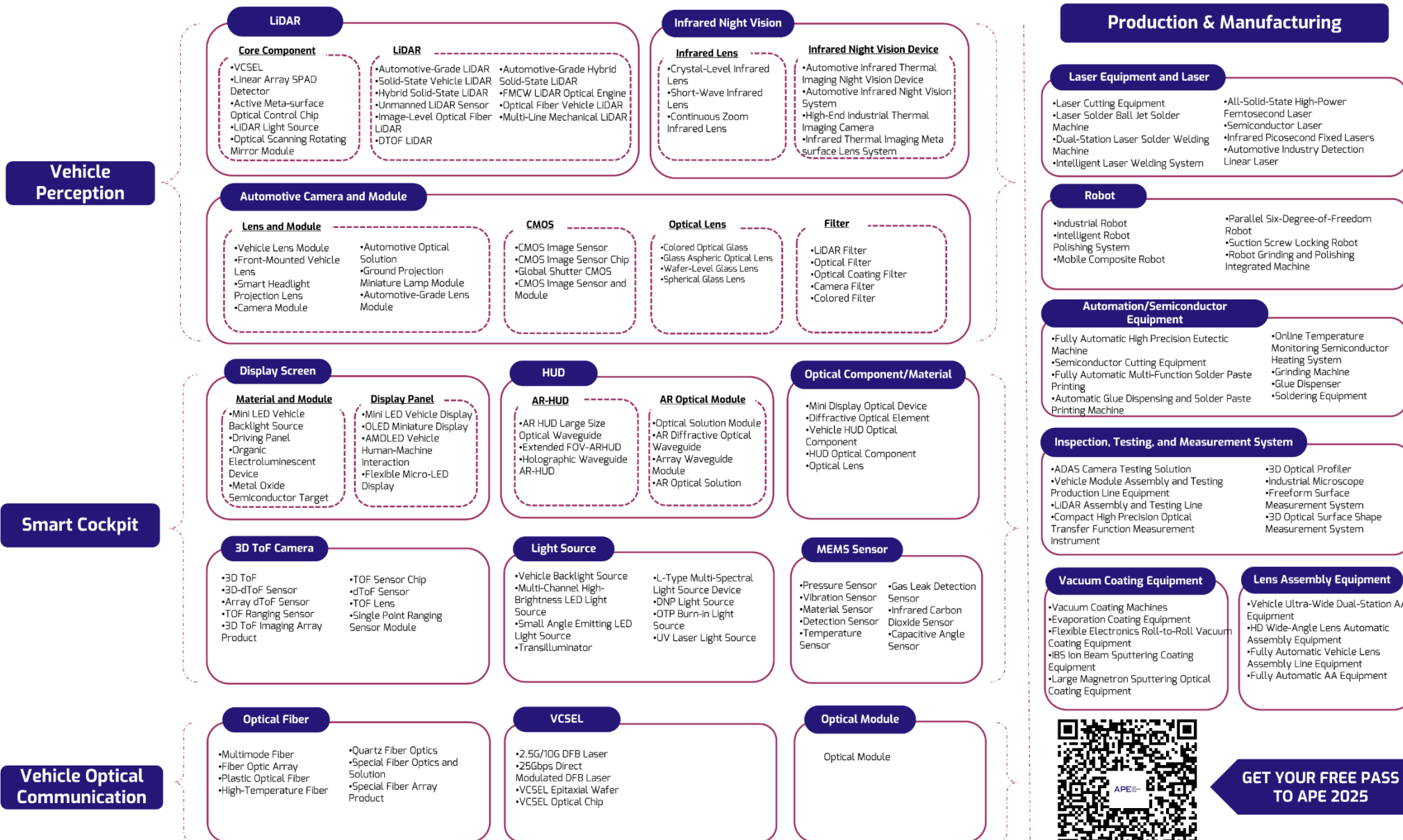
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| SKYWORTH | GREE |
| Gotech | Midea |
| NARWAL | FONTILE |
| DAIKIN | Hitachi |



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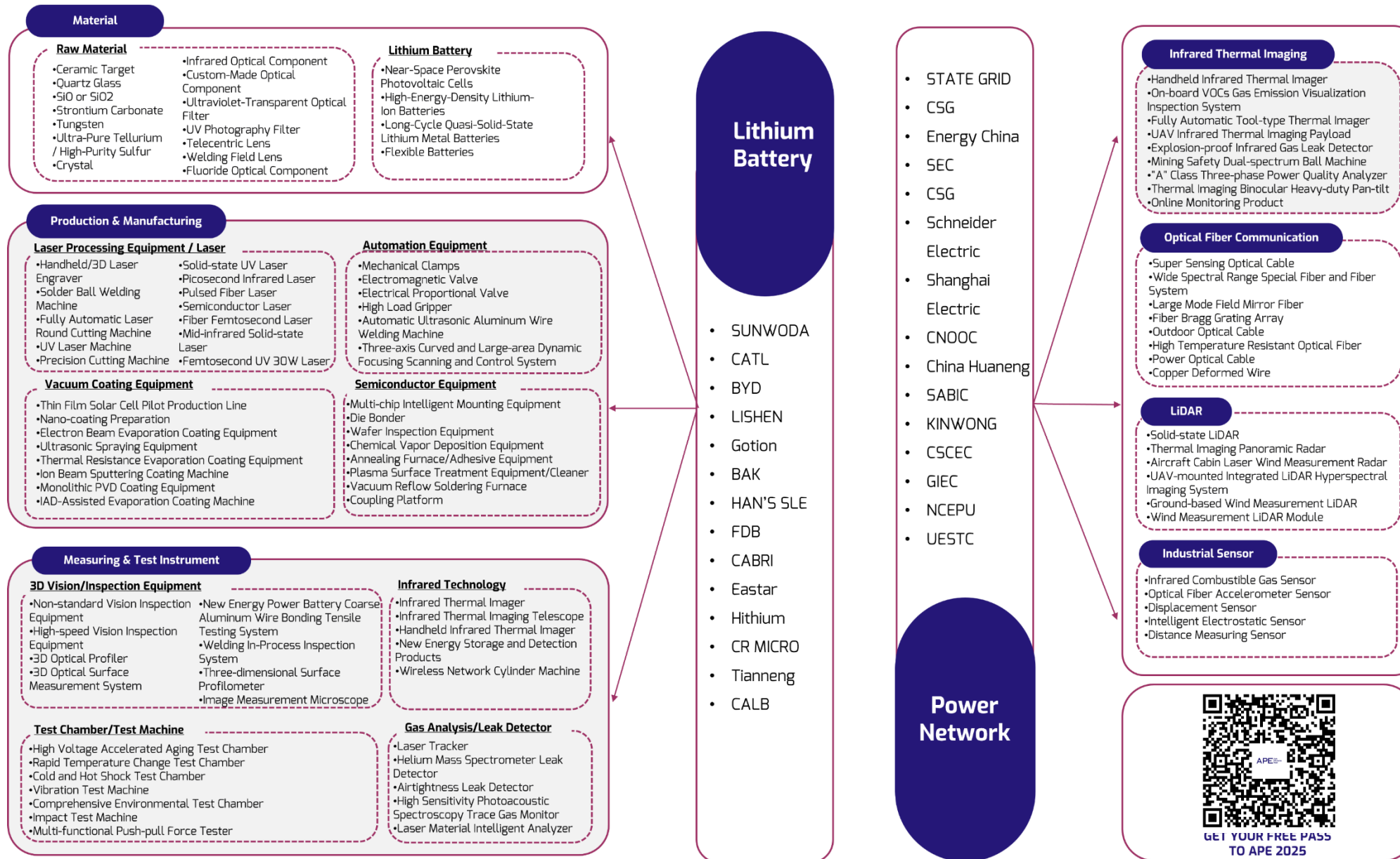
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Material/Component

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

>>> Register
as a Visitor



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

Burnaby Solutions Pte Ltd (a licensed travel agency with Singapore Tourism Board)

Service Hotline: +65 69110855

Email: enquiry@burnaby-solutions.com

For Hotel Reservations, visit:

https://register.burnaby-solutions.com/v2/booking/step1_all/405

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APE

Asia
Photonics
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26 - 28 February 2025
Sands Expo and Convention Centre, Singapore

Contact us

- Visiting / Delegation Inquiry: eileen.chen@informa.com

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