

# APE 2025

# PRODUCT BROCHURE

Source: APE Digital Showroom (Updated by 17 Jan 2025)

26 - 28 February 2025

Sands Expo and Convention Centre (Marina Bay Sands) Level 1

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Company Name	Booth	Page
<b>Optical Communication</b>		
Advanced Fiber Resources (Zhuhai), Ltd.	B116	6
Bandwidth 10 (Hong Kong) Ltd	B121	6
Chengdu Sufastech Technology Co.,Ltd	C512	7
Cutting Edge Coatings GmbH	A122	7
DBTEK	B104, B105	7
Deviser Instruments	A331	7
Evatec Ag	B304	8
Flyin Group Co., Ltd	A204, A205	8
Hangzhou Dahe Thermo-Magnetics Co., Ltd.	B132	8
Infrasolid GmbH	A125	9
Jiangsu DMIS Photoelectric Communication Co., Ltd	A521	9
Jiangsu Etern Company Limited	A306	9
Jiangsu Ferrotec Semiconductor Technology Co.,Ltd.	B135	10
Jinan Jingzheng Electronics Co., Ltd	A010	10
LUXIC Technology	B122	10
MRSI Automation (Shenzhen) Co., Ltd	B111	10/11
Nanosystec	A123	11
Opto-Intel Technologies Co., Ltd.	A532	11/12
Optosigma Southeast Asia Pte Ltd	B206	12
PHOGRAIN	A202, A203	12
Polytec	A221	13
RGB Lasersystems GmbH	A126	13
Shanghai Join-MU Intelligent Technology Co., Ltd	A523	13/14
SiFotonics Technologies (Nanjing) Co., Ltd.	A536	14
Singphotonics International Pte. Ltd.	A222, A223	14
Suzhou Bozhon Semiconductor CO.,Ltd	A326	15
T&S Communications Co., Ltd.	A105, A106	15
Tcpack Electronic Technology Co., Ltd.	A006	15
TeraHop Pte. Ltd.	B112, B113	16
US Conec Ltd.	B125	16
Wooriro Co., Ltd	B103	16
Wuhan ANPL Optoelectronics Co., Ltd	A008	16/17
Wuxi Xin Giant Macro Intelligent Technology Co., LTD	A311, A312	17
Yokogawa Engineering Asia Pte Ltd	B305	17

\*Above is a partial list of APE 2025 exhibitors listed in alphabetical order.

Source: APE Digital Showroom (Updated by 17 Jan 2025)

Company Name	Booth	Page
<b>Precision Optics</b>		
Advinno Technologies Pte Ltd	B232	19
Archer OpTx, Inc	B124	19
Boardstone Intelligent (Dongguan) Co.,Ltd.	C104	19/20
BOHONGYUAN	C503	20
Bote Optics	B234	20
Changchun Boxin Photoelectric Co., Ltd.	D212, D213	20/21
Changchun Glitter Optics Co., Ltd	D101	21
Changsha AFiSy Technologies Co., Ltd.	D313	21
CPG Optics	B003	21
Dymek Asia (S) Pte Ltd	B314	22
Edmund Optics Singapore Pte Ltd	B201	22
Fuzhou Hundreds Optics Inc.	C123	22
Guangdong Huicheng Vacuum Technology Co., Ltd.	C301	22
GuangDong KingDing Optical Technology Co., Ltd	C533	23
Hefei United Optics Co., Ltd	C001	23
HG Optronics., Inc.	B001	23
Hitronics Technologies Malaysia Sdn. Bhd.	B005, B006	24
Hongshi Intelligent Technology Co., Ltd	C225	24
Kemet Far East Pte Ltd	B336	25
IBD Technology Co.,Ltd.	C334	25
L-Chaser Optics Ltd.	D103	25/26
Microvita-Instrument	B106	26
Moveon Technologies Pte Ltd	B332	26
Nanjing Apex Optics Co., Ltd	D124	26
Nanjing Co-Energy Optical Crystal Co., Ltd	D204	27
Optical Gaging (S) Pte Ltd	B311	27
Opticreate Technology.Inc.	D112	27
Opto Precision Pte Ltd	B236	27
Prinano Technology (Hangzhou) Co., Ltd.	C111	28
Qingdao GermanLitho Co., Ltd.	C101	28
Satisloh Asia	C223	28
SD Optics Singapore Pte Ltd	B214	29
SuZhou Guangduo Micro,Nano Devices Co.,Ltd	C135	29
SWCC Corporation	B136	29
Trioptics Singapore Pte Ltd	B204	29
Tztek Technology Co., Ltd.	A321, A322	30
Wavelength Opto-Electronic (S) Pte Ltd	B221	30
WTS Photonics Co., Ltd	C236	30
Zhongshan Mavinlens Optical Co.,Ltd.	C335	30/31
Zhongshan Sprecision Technology Co., Ltd	C333	31
Zhongshan Uvata Optics Co., Ltd.	C331	31

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Source: APE Digital Showroom (Updated by 17 Jan 2025)

Company Name	Booth	Page
<b>Laser Technology</b>		
Acexon Technologies Pte Ltd	B224, B326	33
Arima Lasers Corporation	C131	33
Bomin Electronics Co., Ltd.	C232	34
CamOptics (SuZhou) Co., Ltd.	B532	34
Changchun Chenfeng Optics Co., Ltd	D111	34
Compound Semiconductor (Xiamen) Technology Co., Ltd	C234	35
Dongguan Strong Laser Advanced Equipment Co., Ltd.	A235	35
EMGO-TECH Technology Co., Ltd.	C115	35/36
Fluence Technology	C224	36
Fuzhou XK Photonics Co., Ltd	C231	36
Guangdong Guangwei Laser Technology Co., Ltd.	D316	36
Guangdong Huaruike Automation Technology Co., Ltd	C531	37
Guangdong Shouradium Laser Technology Co., Ltd	C005	37
Han's Laser Technology Industry Group Co., Ltd.	C226, C227	38
HOTLONG	D507	38
JD Union Pte Ltd	B212	38
MOJI-NANO Technology	D203	39
Optosky(Xiamen)Photonics Inc.	C532	39
Ruik-tech Communication (Dongguan) Co., Ltd.	D326	39/40
Sintec Optronics Pte Ltd	B315	40
Suzhou Metlaser Intelligent Technology Co., Ltd	D224	40
ViLaser Equipment Co.,LTD	C525	40
Wuhan ibrntech Co.,Ltd.	D317	41
Yantai Huachuang Intelligent Equipment Co., ltd	B531	41
<b>Sensing/Infrared/Display</b>		
Atoman Semiconductor Technology Co., Ltd	D223	43
Focuslight (DG) Microoptics Co., Ltd.	C121	43
HK Carlson Industry Co., Limited	D304	43/44
SINCEVISION	D306	44
SmartCore	C006	44
Xiamen Changelight Co., Ltd	D314	44
Beijing IRLENS Optoelectronic co., Ltd	C501	45
Chengdu HONPHO Technology Co., Ltd.	C315	45
Guangdong iStar Technology Equipment Co., Ltd.	D205	45/46
Kunming Vision Infrared Co., Ltd.	D509	46
Raytron Microelectronics Co., Ltd.	B536	46
Grupa Techniczna CODI	C303	47
UV Technology Shenzhen Co., Ltd	D226	47
<b>Quantum Technology</b>		
ChengDu Data Automation System Technologies CO., LTD.	A114	49
QuantumCTek (Shanghai) Co., Ltd.	A116	49
SpinQ Technology (Hongkong) Co., Limited	A111	50
Zquantum (Beijing) Technology Co., Ltd	A115	50

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## Optical Communication

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



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PRODUCTS**

**Advanced Fiber Resources (Zhuhai), Ltd.**

B116

**Hermetic Fiber Feedthrough**

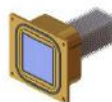
AFR provides Hermetic Fiber Feedthrough by hermetically attaching gold plated metal ferrule to fiber cables base on different applications to guarantee excellent hermetic feedthrough performance. 5M, MM, PM individual fiber or ribbon fiber available upon request. The hermetic feedthrough is commonly used in PLC module, LD packaging and integrated optics packaging for hermetic sealing purpose.

**Advanced Fiber Resources (Zhuhai), Ltd.**

B116

**OXC**

Optical cross-connects (OXC) featuring high-channel fiber arrays are widely used in optical cross-connection systems and spectroscopy applications.

**Bandwidth 10 (Hong Kong) Ltd**

B121

**Inp-based Long Wavelength Tunable VCSELs**

Features: 1. Wavelengths of 1310nm/1410nm/1550nm/1650nm 2. 7-Pin TO-56 Mini Package 3. 5M or PANDA PM pigtailed fiber output 4. Integrated TEC 5. 8nm to 14nm wavelength tuning range

**Bandwidth 10 (Hong Kong) Ltd**

B121

**VCSEL Based OCT Swept Source**

Features: 1. Based on our tunable VCSEL 2. 1060nm and 1550nm wavelength available 3. Integrated electrical control circuit 4. Integrated SOA 5. Integrated MZI based K-clock output 6. Small size 150 mm \* 106 mm \* 36 mm





**Chengdu Sufastech Technology Co.,Ltd**

C512

**Oscilloscope**

DCA4201 sampling oscilloscope is based on equivalent-time sampling and reconstructed eye diagram technology, resulting in higher accuracy and better cost of measurement of high-speed optoelectronic digital signals. This is also recognized as the industry standard for verifying optical transmitter compliance to communications standards. The DCA4201 is designed for mass production test applications. Its accuracy is as high as industry-standard sampling oscilloscope.

**Cutting Edge Coatings GmbH**

A122

**Navigator 1000**

Our standard system – diversily customizable configurations for your requirements.

**DBTEK**

B104, B105

**GT 40**

1.Why is our product named GT? It's inspired by Gran Turismo, a genre of cars known for extreme speed, comfort, and performance.  
 1)Speed: 5-second splicing time 2)Comfort: 5-inch display with fast touch response 3)Performance: 9000mAh battery and Type C charging

**Deviser Instruments**

A331

**AE8600 Optical Spectrum Analyzer 600-1700nm**

Brought to you by Deviser Instruments, the AE8600 is a high-precision diffraction-grating optical spectrum analyzer designed for telecom applications. It offers a high-resolution wavelength range of 600nm to 1700nm, with a minimum wavelength resolution of up to 20pm. Additionally, it has a maximum measurement power capability of +20dBm and level sensitivity down to -90dBm. AE8600 is the ideal OSA for R&D and production of optical communication devices, offering enhanced accuracy and stability in wavelength and power measurements, faster scanning speed, efficient remote control capabilities, greatly improving measurement efficiency.



**Evatec Ag**

B304

**SOLARIS**

SOLARIS® sputter platforms combine the know-how from delivering over 5000 high speed optical disk systems with experience gained from over 3000 semiconductor PVD tools to deliver a new approach in thin film mass production. With their "inline" architecture, SOLARIS® platforms are designed for "fully automated fabs" increasing throughput and eliminating manual handling. From Touch Panels to EMI Shielding, Thermoelectric Generators, Power Devices and Photovoltaics, the S151 and S380 platforms offer flexible high speed manufacturing solutions for rigid and flexible substrates.

**Flyin Group Co., Ltd**

A204, A205

**WDM**

WDM, or Wavelength Division Multiplexing, boasts several key advantages in the market. It significantly increases fiber transmission capacity and efficiency by combining multiple wavelengths of light into a single fiber. It offers cost savings, high reliability, and flexibility. WDM supports diverse network services, enables ultra-long-distance transmission, and facilitates seamless upgrades and expansions, making it a cornerstone of modern optical communication networks.

**Flyin Group Co., Ltd**

A204, A205

**Optical Transceiver**

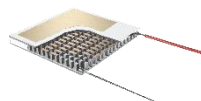
Optical Transceivers stand out in the market for their compact size, hot-swappable design, and versatility. They support high-speed data transmission over various distances and media types. Cost-effective and energy-efficient, SFP modules offer flexibility in network upgrades and expansions, ensuring seamless integration and scalability.

**Hangzhou Dahe Thermo-Magnetics Co., Ltd.**

B132

**TEC**

The product has the characteristics of high reliability, good stability, strong consistency, long life, fast refrigeration speed, good time response, deep refrigeration temperature and high efficiency





**Infrasolid GmbH**

A125

**HIS550R-B**

HIS550R-B is the newest member of our HISbasic series. It is hermetically sealed with a broadband BaF2 filter window to meet all applications in the 1-15  $\mu\text{m}$  wavelength range. HISbasic series IR emitters are pulsable thermal black-body sources mounted in an industry standard TO-39/TO-5 package. They offer the perfect combination of performance and cost-effectiveness thanks to innovative manufacturing processes. This unique balance of performance and efficiency makes the HISbasic series the ideal choice for industrial applications with high production volumes.

**Jiangsu DMIS Photoelectric Communication Co., Ltd**

A521

**OPTICAL FIBER PATCH CORD**

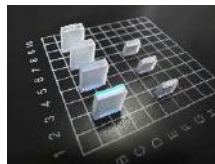
There are a variety of specifications and models of fiber jumpers: single mode Patch Cord, gigabit multi-mode Patch Cord, ten gigabit multi-mode Patch Cord, single mode armored Patch Cord, multi-mode armored Patch Cord, MPO Patch Cord. PRODUCT FEATURE To provide a variety of different connection head: SC, LC, FC, ST, MPO/MTP, MTRJ, MU and so on. The ceramic core has PC, UPC, APC three end faces. Pigtail types are simplex (core), duplex (core). Optical fibers include G652D, G657A1, G657A2, OM1, OM2, OM3, and OM4. The skin material can be PVC, LSZH, OFNR, OFNP, etc. Low insertion loss and high return, high-density link, easy to operate.

**Jiangsu Etern Company Limited**

A306

**50G PON Z-Block**

ETERN's 50G PON products can support two major solutions: Filter solution such as metal bracket and Z-Block. It also meets the G/XG(S)/50G PON tri-mode coexistence. And the test indexes are fully compliant with ITU-T G.9805 series index requirements. It can be applied to SFP package to realize the miniaturization of 50G PON optical module.

**Jiangsu Etern Company Limited**

A306

**Thin Film Filter**

Based on the company's advanced optical coating technology and perfect automated production and inspection capabilities, ETERN has launched Filter products widely used in LIDAR, biomedical, communication and other fields, including 50GHz/100GHz DWDM Thin Film Filter, 905/940/1550nm filters for LIDAR.



### Jiangsu Ferrotec Semiconductor Technology Co.,Ltd.

B135

DCB (Direct Copper Bonding) is a kind of electronic basic material which bond copper foil directly on ceramic surface. It has good thermal cycling, high mechanical strength, high thermal conductivity, high insulation and high current carrying capacity. Active Metal Brazing is a further development of DCB technology. It is a method of bonding ceramic and metal by using a reaction layer generated by the reaction between a small amount of active elements contained in brazing filler metal and ceramic, which can be wetted by liquid brazing filler Metal.



### Copper Bonded Ceramic Substrates

### Jinan Jingzheng Electronics Co., Ltd

A010

Lithium niobate thin film is a thin film made of lithium niobate ( $\text{LiNbO}_3$ ) material, which has many excellent properties and has been widely used in the fields of electronics, optics, and communication. Lithium niobate is used to produce high-performance devices such as high-speed electro-optic modulators and high-performance acoustic filters, which are applied in data centers, long-distance data transmission, mobile phones, base stations, etc., to meet the high bandwidth and high-frequency RF market requirements of the next generation of wireless networks.



### Lithium Niobate Thin Films

### LUXIC Technology

B122

### 4x200G MZM Driver and TIA

Driver: 1) High 3dB bandwidth: 85GHz typical; 2) High output voltage: 1.8Vpp for single end, and 3.5Vppd for differential; 3) up to 18dB gain; 4) integrated peak detector; 5) high peaking amplitude to support LPO application; 6) low power consumption; 7) low Total Harmonic Distortion (THD); 8) support wire bonding or flip chip package. TIA: 1) High 3dB bandwidth: 60GHz typical; 2) 150 to 3500 ohm differential electrical gain; 3) Large adjustable AGC output amplitude range up to 500mVppd; 4) Low input referred noise, 3.3uArms typical; 4) Low power consumption: 0.83W typical.



### MRSI Automation (Shenzhen) Co., Ltd

B111

### MRSI-A-L Active Aligner

MRSI A-L is a modular-design machine, with integrated pick and place, dispense, vision, alignment functions, as well as intelligent software that offers users flexible processes. It is a powerful tool for optical components assembly, such as transceivers, silicon photonics, AWGs, LiDAR, integrated optics etc. Active aligner applications tend to be highly customized and MRSI is equipped to meet design requirements for customized applications. Configuration highlights: ·\t360° rotatable laser angle collimator for high precision surface angular control ·\tLaser beam profile measurement and processing ·\tPowerful machine vision ·\t1μm accuracy laser height detection ·\tAuto dispense & UV cure



**MRSI Automation (Shenzhen) Co., Ltd**

B111

**MRSI-H1 FAMILY 1-MICRON  
Flip-chip Die Bonders**

Product Features: Proven exceptional flexibility and reliability for true high-mix, high-volume production of multiple chips, processes, and products. High precision design with a patented zero-time tool change turret design, identical to the best-selling MRSI-HVM. Optional loading/unloading conveyors available. This series enhances efficiency by increasing parallel material handling without sacrificing flexibility, accuracy, or reliability. Configured according to the process characteristics of different application fields, classifying the H series products accordingly. Application Fields: Optical transceivers and other photonic devices, RF and microwave devices, high-power laser applications, and TO header packaging applications.

**Nanosystec**

A123

**Versaseries For Challenging  
Assembly Processes**

The semi or fully automated production of the VersaSeries are used for complex assemblies which require precision in the low micrometer regime. Assembly techniques include micro welding, selective soldering by laser or hotbar and gluing (with subsequent UV or thermal curing) plus laser fine cutting. Various processing methods can be combined in one station. Feeders, belts and robots facilitate full automation while exchangeable grippers offer highest versatility. The motion system consists of high-precision linear and rotary stages to offer adjustment capability in all degrees of freedom. The gantry configuration provides superior repeatability over the entire work surface.

**Nanosystec**

A123

**NanoTest Optical  
Characterization Systems**

NanoTest performs optical and electrical characterization for Silicon Photonics Devices on wafer and chip level, VCSEL wafers, laser bars and CoS and High-Density PICs. All NanoTest stations combine precise measurements with high speed, proven reliability and ease of use. The versatility qualifies the stations not only for high volume quality assurance, but also for demanding development applications. The graphic interface displays panels for system functions, such as LIV curves, OSA measurement and S factors of the network measurements. All measured data can be stored in a local database or transferred into the customer's system.

**Opto-Intel Technologies Co., Ltd.**

A532

**Vacuum Solder Reflow Oven**

Mainly used to achieve void-free and perfect solder joints between high-power chip/device and its substrate. Process capability includes vacuum, inert or reducing atmosphere and our unique plasma enhanced technology to optimize soldering quality. Specific models: 1. VSR-8/VSR-20/VSR-20MPA Classic Design Vacuum Solder Reflow Oven (Single Chamber) : Mainly used in semiconductor lasers, optical communication modules, power chip packaging. 2. VSR-304 Automatic Vacuum Solder Reflow oven with Vertical Four Chambers for Mass Production: Mainly used in reflow soldering of IGBT, SiC, etc. It supports formic acid process and flux process.



**Opto-Intel Technologies Co., Ltd.**

A532

**Precision Automatic Die Bonder Series**

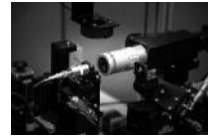
A Fully Automatic, High-Precision, Multifunctional, Universal Die Bonder Platform. The series contains several models and has a wide range of applications. 1. Silver Sintering Die Bonder (Model ND1800) : Hot bonding process capabilities for silver sintering of SiC. 2. Multifunctional Die Bonder (Model ND1800-MCM) : Bonding process capabilities of adhesive, eutectic, flip chip, TCB. 3. high-speed and high-precision Die Bonder (Model ND1800-F5) : Targeted optimization of individual process capabilities to improve bonding efficiency. 4. Automatic High Speed Die Bonder (Model ND5000) : Mass production capability of high speed eutectic bonding process like high power LED, COC/COS; AOC/COB; GOLD BOX.

**Optosigma Southeast Asia Pte Ltd**

B206

**Precision Alignment**

The provided ALIGNMENT STAGE units boast 12 axes (6-axis) with symmetrical configurations, enabling flexible and cost-effective customization for silicon photonics applications. The use of standardized hardware and customizable software streamlines system creation. The magnet mounting method and positioning mechanism in the holders ensures high positional repeatability. NIPPON BEARING excels in high-precision linear motion technology, offering components like miniature linear guides and ball splines for diverse applications across industries. KATSURA OPTO SYSTEMS specializes in optical measurement technology, providing laser tilt sensors, autocollimators, and precise adjustment systems.

**Optosigma Southeast Asia Pte Ltd**

B206

**Quantum**

OptoSigma supplies Superconducting Nanowire Single Photon Detector (SNSPD) systems capable of achieving high detection efficiency (up to 98% at 1550 nm), wide range for detection (400 nm - 3000 nm) as well as low timing jitter (<50 ps) with up to 32 detection channels. OptoSigma also provides educational platforms based on NV diamond technology that enables basic concepts of quantum physics and engineering to be demonstrated. Additionally, OptoSigma supplies ultra-narrow linewidth and single frequency lasers from UV to IR wavelengths. Target applications include quantum key distribution, quantum random number generation, quantum computing and quantum communication.

**PHOGRAIN**

A202, A203

**4X200GBaud PIN PD CHIP**

1. Application speed cover: 1.6T 2. Low capacitance and max. bandwidth to over 40GHz 3. Supporting 850nm~910nm and 1100nm~1650nm wavelength application 4. Bigger illuminated window for easy coupling 5. Flip-chip and backside illuminated with lens for single channel 112G PD for excellent sensitivity performance 5. Batch applied in 400G to 800G datacenter

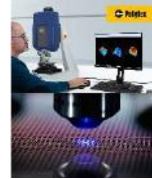


**Polytec**

A221

**TopMap Micro.View® |  
Optical Surface Profiler**

TopMap Micro.View is an easy to use and compact optical profiler. Combine exceptional performance and affordability with this powerful metrology solution. - High-end white-light interferometer with nm resolution - 100 mm z measurement range with CST Continuous Scanning Technology - With Focus Finder and Focus Tracker ready for automation - Motorized X, Y, Z, tip/tilt and turret save repositioning - Color information mode for extended analysis and documentation of defects - Modular, application-specific configurations

**Polytec**

A221

**VibroGo® | Truly Portable Laser  
Vibration Measurement**

VibroGo® is the truly portable, battery powered digital laser vibrometer for field studies and quick and easy condition monitoring of machines and facilities on the go. - Study acoustics and dynamics with laser precision in field and lab - On-board storage, monitoring and quick analysis of measurement data - Wireless measurement and remote control from everywhere - Lightweight, versatile and outdoor proof (IP64) - Measure from a safe distance up to 30 m, from DC up to 320 kHz - Velocity ranges up to  $\pm 6$  m/s - Optional mobile power supply for up to 3 hours operation

**RGB Lasersystems GmbH**

A126

**Lambda Beam Wavelength Laser  
Systems**

Exceptional wavelength stability, Spectral linewidth up to Coherence length up to 10 m, For RAMAN measurement devices

**Shanghai Join-MU Intelligent  
Technology Co., Ltd**

A523

**MU95015 No-mandrel Plug  
Back Loss Tester**

The MU95015 series no-mandrel IL&RL tester is a precision instrument specially developed by Join-MU to provide accurate and fast performance detection for high-end optical cable, optical fiber and optical device testing. Join-MU no-mandrel return loss tester pioneered the gap in domestic market and technology, greatly improved the test efficiency of optical device return loss, and provided a good solution for the return loss test of optical devices that cannot or are not easy to wind.



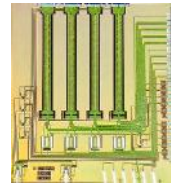
**Shanghai Join-MU Intelligent Technology Co., Ltd**

A523

The application of Join-MU's "no-mandrel" technology solves the problems of multi-core optical devices that can't be wrapped and require matching, greatly improving the testing efficiency of multi-core/ribbon optical fiber IL & RL.

**MAP900 Multi-channels IL & RL Test System****SiFotonics Technologies (Nanjing) Co., Ltd.** A536**200Gb/Lamda SiPho PAM4 PIC**

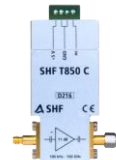
800G DR4/1.6T DR8 AI/DC application; Monolithic silicon photonic Tx PIC with high speed modulators, MPDs, Edge couplers, 1xN power splitters and VOA integrated; SiN edge couplers and power splitters to support very low coupling loss and high damage power 112GBaud, 4CH or 8-CH; High 3-dB/6dB EO bandwidth: 53GHz/63GHz Low on chip loss and low coupling loss between edge coupler and fiber FA with optimized design; Support DSP direct drive and LPO with one design; Exclusive 8 inch CMOS SiPh wafer process with a top CMOS FAB Partner to enable faster tape-out and higher production capacity;

**Singphotonics International Pte. Ltd.**

A222, A223

**100GHz Ultra Broadband Amplifiers T850 C**

it's single-ended linear RF broadband amplifier ideally suited for PAM4 signals even beyond 200 Gbps (100 GBaud). With a 3 dB bandwidth from < 100 kHz to > 100 GHz. Key features: 1、Bandwidth:  $\geq 100$  GHz 2、Gain: 11 dB 3、Linear Operation: Up to 2 V Output Eye Amplitude

**Singphotonics International Pte. Ltd.**

A222, A223

**High-power Continuously Tunable Laser T500S**

Faster and highly reliable testing for optical components, including photonic integrated circuits. Key features: 1、Bidirectional sweeps with speeds up to 200nm/s 2、14-dBm peak optical power output 3、Excellent SSSER 4、Six models covering 1240 nm – 1680 nm 5、Wavelength tuning and continuous sweep modes 6、Active mode-hop-free operation



**Suzhou Bozhon Semiconductor CO.,Ltd**

A326

**MicroStar Series EF8621-Plus  
Eutectic Die Bonding Machine**

The EF8621-Plus is an in-line, fully automatic, high-precision eutectic die bonder. While adhering to the high precision and high reliability, it maximizes the multifunctional compatibility of the equipment and supports various placement processes such as COC/COS/GOLD BOX/Flip Chip. In addition, the mechanical structure of the machine retains the original model's double-station while adding a streamlined design that seamlessly connects with the automatic loading and unloading of AGVs, which further enhances the production efficiency.

**T&S Communications Co., Ltd.**

A105, A106

**Fiber Optic Flex Circuit (FOFC)**

The Fiber Optic Flex Circuit (FOFC) addresses the need for effective cable management, enabling optimal airflow and efficient routing within communication systems. It provides a streamlined solution for routing fiber from board-to-board, shelf-to-shelf, or within narrow and irregular spaces, ensuring organized and compact fiber pathways.

**T&S Communications Co., Ltd.**

A105, A106

**800G QSFP-DD Fiber Optic  
Transceiver**

This transceiver is an 8-Channel, Pluggable, Fiber Optic QSFP-DD transceiver for 800Gbps SR8 Applications. It is a high performance module for short-range data communication and interconnect applications which operate at 106.25Gbps per lane up to 30m using OM3 fiber and 50m using OM4 fiber. The optical interface uses MPO receptacles. This module is designed to operate over multimode fiber systems using a nominal wavelength of 850nm. The electrical interface uses a 76 contact edge type connector.

**Tcpack Electronic Technology Co., Ltd.**

A006

**SOP**

(System on package)SOP package ;Integrated frequencies ,Multi-stage sealing/brazing mold design, Multi-cavity interconnect feedthrough and electromagnetic shielding .





**TeraHop Pte. Ltd.**

B112, B113

**1.6T Series Optical Transceivers**

The 1.6T Series Optical Transceivers are designed to meet the ever-growing demands of ultra-high-capacity networks. With industry-leading bandwidth, power efficiency, and integration capabilities, these transceivers pave the way for the next generation of AI-driven and data-intensive applications.

**US Conec Ltd.**

B125

**MMC Connector**

The revolutionary MMC connector ushers in a new era of high density, low insertion loss connectivity by combining a new, reduced size, MT-style ferrule (TMT) with a novel very small form factor (VSFF) connector embodiment. Employing DirectConec™ push-pull technology, the MMC connector enables the highest functional fiber density available in the market. Simplified gender and polarity management greatly reduces the complexity associated with MPO cabling infrastructure. MMC connectivity enables solutions that minimize the space required across multiple applications, including structured cabling, high fiber count data center interconnects, transceivers and on-board optics.

**Wooriro Co., Ltd**

B103

**SPAD (Single-Photon Avalanche Diode)**

InGaAs/InP Geiger-Mode Avalanche Photodiode Optimized for 1000 to 1600nm Wavelength 10MHz ~ 1GHz Gating Frequency Operation Built-In 3stage TEC (Thermo-Electro Cooler)

**Wuhan ANPI Optoelectronics Co., Ltd**

A008

**Thin Film Lithium Niobate Intensity Modulator**

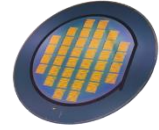
The thin-film lithium niobate optical intensity modulator based on the equiarm Mach-Zehnder interference structure converts the input electrical signal into a change in light intensity, which has the characteristics of large bandwidth, low loss, low driving voltage and high stability.



**Wuhan ANPI Optoelectronics Co., Ltd**

A008

Thin-film lithium niobate 4/8-channel array modulator chip, ultra-high bandwidth, small size, low driving pressure, based on 8-inch tape-out process, large production capacity, high yield, suitable for 200G/Lane and 400G/Lane high-speed optical transceivers.

**Thin Film Lithium Niobate Modulator Chips****Wuxi Xin Giant Macro Intelligent Technology Co., LTD**

A311, A312

From optical crystal cold processing to passive optical components and testing, with industry leading high stability, high consistency automated production equipment.

**Fiber Jumper Series****Yokogawa Engineering Asia Pte Ltd**

B305

The AQ6380 OSA features excellent optical wavelength resolution, accuracy, and close-in dynamic range specifications, enabling precise measurement and clear separation of optical signals in close proximity. It incorporates smart technology and functionality including an intuitive touchscreen, automated wavelength calibration, and optimized sweep speed, allowing users to operate more efficiently. Additionally, it includes gas purging mechanisms, fully-automated wavelength calibration, compatibility with high-resolution and high sample counts, and single-mode fiber input.

**AQ6380 Highest Performance Optical Spectrum Analyzer**

## Precision Optics

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



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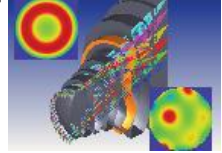
**EXPLORE MORE  
PRODUCTS**

**Advinno Technologies Pte Ltd**

B232

**Zemax**

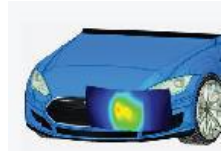
Ansys Zemax OpticStudio® is the leading optical design software for developing, analyzing, and optimizing optical systems across industries such as aerospace, consumer electronics, and healthcare. It features tools like ray and wavefront analysis, physical optics propagation, and tolerance evaluation. Unlike other software, OpticStudio integrates advanced Multiphysics analysis (e.g., structural and thermal impacts), API automation, and comprehensive libraries of optical materials and commercial lenses. Its capabilities accelerate time-to-market, reduce prototyping costs, and ensure high-accuracy designs. With robust optimization tools and versatile configurations, it empowers engineers to create innovative solutions from simple lenses to complex Photonic systems.

**Advinno Technologies Pte Ltd**

B232

**Lumerical & SPEOS**

Ansys Lumerical and Ansys Speos combine cutting-edge photonic and optical simulation capabilities to empower engineers in designing innovative, high-performance systems. Lumerical excels in simulating optical and optoelectronic systems with advanced multi-physics modeling and quantum photonics tools, while Speos specializes in physics-based ray tracing for accurate lighting and optical system validation. Together, they address diverse applications, from photonic integrated circuits and metasurfaces to advanced lighting in automotive and aerospace industries. Seamlessly integrating with CAD environments and offering robust material libraries, these tools reduce prototyping costs, enhance design accuracy, and accelerate time-to-market, ensuring exceptional innovation in photonics and optical systems.

**Archer OpTx, Inc**

B124

**PerfectLens® Molded Glass Aspheric Lens**

Archer OpTx molded lenses are made using the PerfectLens® technology platform, which creates high-yield, long-life molds free of high-frequency surface defects found in many molded lenses. These defects, often undetected in interferograms, can cause diffraction and scatter, especially in visible light applications. The PerfectLens® process supports a wide range of optical glasses, allowing designers to select the best material for their needs. It enables ultra-precision molding with tight tolerances and high-temperature, low CTE RoHS-compliant glass. Benefits include superior optical performance, reduced labor costs for inspection and production, and greater consistency in the final product.

**Boardstone Intelligent (Dongguan) Co.,Ltd.**

C104

**Image Dimensional Measurement System**

One touch image measurement system, used to measure component or finish product's two-dimension size. It is widely used in the quality control process, compare to traditional measurement tools, it is much more accurate (0.4µm), fast(output 100 component's size within few second) and easy to operate.



**Boardstone Intelligent (Dongguan)**

C104

**Super Large Depth Of Field  
Digital Microscope**

Atometrics digital microscope comes applying focus variation technologies, providing super large depth of field function, make sure user can capture the clearest picture and details. It not just an observational microscope, but also a measurement tools with rich measuring elements and high accuracy.

**BOHONGYUAN**

C503

**DDG580**

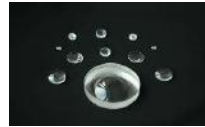
Mainly used for hard, brittle, thin non-metallic parts (glass, ceramic sheet, sapphire, etc.) double end surface for efficient precision grinding, and can be used for precision grinding metal thin precision parts (bearings, valves, carbide blades, seals, oil pump blades, piston rings, etc.) on the upper and lower parallel planes. Can also be used for mobile phone cover glass high-precision and rapid thinning, the machine has a high degree of intelligence, can achieve automatic online measurement of workpiece thickness, automatic loading and unloading

**Bote Optics**

B234

**Spherical Lenses**

Spherical lenses are integral components in optical systems, characterized by their curved surfaces, which enable them to converge or diverge light. These lenses can be either convex (positive focal length) or concave (negative focal length), depending on the curvature of the surfaces. Convex lenses focus parallel rays of light to a point, making them essential in applications such as imaging and light concentration. Conversely, concave lenses spread out light rays, making them ideal for beam expansion and reduction. At Bote Optics, we specialize in the design and fabrication of high-quality spherical lenses with superior surface precision and material purity.

**Changchun Boxin Photoelectric Co., Ltd.**

D212, D213

**Optical Components**

Boxin supplies high precision Optical lenses across China and around the World. We custom made optical components designed with specific substrates. Our products used in a wide range of applications, such as microscopy, imaging, life science, testing, and measurement. Meanwhile, we have a sophisticated R&D team, which provides technical support to its product designs and fabrications. OPTICAL COMPONENTS: Cylindrical, Aspherical, Flat Optical Components, Toric, Spherical, Prisms, Freeform Products, Large-scale Optics



**Changchun Boxin Photoelectric Co., Ltd.**

D212, D213

**Lens Assembly**

Changchun Boxin continuous zoom lens has a wide range of focal length and coverage. At present, there are a series of products such as 24 ~ 120mm, 10 ~ 150mm, 10 ~ 300mm, 18 ~ 500mm, 14 ~ 800mm, 20 ~ 1200mm, 32 ~ 1500mm, 200 ~ 2000mm, 500 ~ 2500mm, etc. In the field of telephoto lens, there are products suitable for almost all the focal lengths required.



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

**Changchun Glitter Optics Co., Ltd**

D101

Glitter has variety of lens production lines and testing instruments. Our main products are cylindrical lens, spherical lens, window, mirror, prism, toric lens, aspherical lens and so on .The materials can be all kinds of optical glass and crystal, from deep UV to IR. These equipment are imported from Japan ,Korea and other countries. The coating machines are Optorun (Japan)and HaniI(Korea). The main testing instruments include ZYGO interferometer with CGH , Japan made transmission/reflection eccentric instrument , Shimadzu spectrometer and other testing equipment.

**Changsha AFiSy Technologies Co., Ltd.**

D313

**Ion Beam Figuring Machine For Precision Optics**

Vertical layout optimization of workpieces High-precision vacuum motion system Intelligent positioning of work pieces Sub-nano (angstrom) precision ultra smooth surface machining Machinable Surfaces: Plane,spherical, aspheric, off-axis aspheric,cylindrical, free form surfaces,etc. Machinable Materials: Quartz, zerodur, ULE, sapphire, single crystal silicon,silicon carbide,etc. Machining Precision: Achieve ultra-high surface precision machining of RMS<1nm Machining Features: High precision,high certainty, non-contact machining,no edge effects,and no surface/subsurface damage

**CPG Optics**

B003

**optical lens assembly**

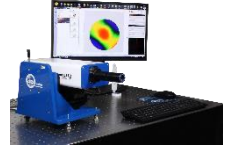
After expertise on custom spherical & aspherical lens components, optical filters, protective windows, CPG has developed its own capabilities on custom lens system design, assembly, and tests. We can customize kinds of optical lens assembly, from designing to manufacturing, with excellent MTF. In our Class 100 clean room, CPG's skilled team meticulously doing the optical lens assembly and test. Our customized lenses include Telecentric Scan Lens, Medical Endoscope, F-Theta Scan Lens, Beam Expander, Infrared Imaging Lens, Focusing Lens, Collimator, FA Industrial Lens, etc.



**Dymek Asia (S) Pte Ltd**

B314

4D PhaseCam performs instantaneous measurements. This allows for vibration insensitive measurements, thus you can perform measurements even in challenging environments. The 4D PhaseCam is part of the James Webb Space Telescope project, which had large test optics and noisy environments simulated in space. That's where the PhaseCam shines.

**4D PhaseCam****Edmund Optics Singapore Pte Ltd**

B201

Optical Filters are used to selectively transmit or reject a wavelength or range of wavelengths. Optical Filters are used in applications such as fluorescence microscopy, spectroscopy, clinical chemistry, or machine vision inspection. Optical Filters are ideal for life science, imaging, industrial, or defense industries. Edmund Optics offers a variety of Optical Filters for many applications, including bandpass interference, notch, edge, dichroic, color substrate, or ND. Edmund Optics also offers highly durable hard coatings for applications that require high optical densities with maximum performance.

**Filter Optics****Fuzhou Hundreds Optics Inc.**

C123

At Hundreds Optics, a leading manufacturer and supplier of optical components, you can explore a wide range of high-quality Optical Crystals. Optical crystals are essential materials used in various applications, including laser technology, spectroscopy, optics research, and telecommunications.

**Optical Crystal****Guangdong Huicheng Vacuum Technology Co., Ltd.**

C301

High-Throughput Plasma-Enhanced Atomic Layer Deposition System (PEALD) features an automated wafer transfer system and specialized ALD control software, enabling one-click fully automated operation. It ensures low precursor consumption, atomic-level thickness control, excellent film uniformity, and conformal coverage. The system is capable of achieving highly uniform coatings on components with complex shapes. It can deposit metal films, oxides, nitrides, and sulfides, and is widely used in optical lenses, Micro/Mini LEDs, power devices, OLEDs

**Atomic Layer Deposition (ALD) Equipment**



**GuangDong KingDing Optical Technology Co., Ltd**

C533

**Optical Lens**

The lenses are characterized by their precision, high optical quality, and versatility. Crafted through non-thermal mechanical processes, these lenses exhibit smooth surfaces, minimal defects, and excellent clarity.

**GuangDong KingDing Optical Technology Co., Ltd**

C533

**Aspheric Lens Precision Molding Machine (MD13-90)**

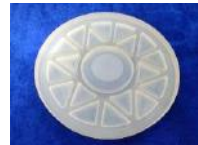
The device is equipped with a capacitive screen for the operating interface, and the software which has independent intellectual property rights is applied, and the software reserves customizing and upgrade spaces. It can alarm when an abnormal condition occurs, such as abnormal temperature, and untoward cooling water and nitrogen, and abnormal compressed air and molding NG, and all of the alarms will be sounded and recorded by audible and visual alarm. Flow monitoring systems have been installed for power consumption and cooling water and nitrogen.

**Hefei United Optics Co., Ltd**

C001

**Aspheric Products**

Better imaging Reduce or eliminate spherical aberration, astigmatism, and distortion Simplifying the optical system and reducing the number of lenses used

**HG Optronics., Inc.**

B001

**High Precision Spherical And Flat Optics Components**

HGO also has strong capability to produce various custom-made optical components and assemblies, like lenses, prisms, cylindrical lens, aspherical lens, laser optics and optical mirrors, windows and filters etc.



### Hitronics Technologies Malaysia Sdn. Bhd.

B005, B006

### 1.5um PM Fiber Amplifier

Features: Applications: 1. 1540~1565nm; 1. LiDAR for vehicle; 2. Low Noise Figure; 2. Coherent FSO communication; 3. Up to 10W output power; 3. LEO Satellite Laser communication; 4. 1-16 output ports; 4. Topography; 5. High PER 5. Telecom;



### Hitronics Technologies Malaysia Sdn. Bhd.

B005, B006

### Telecentric Lens

Features: 1. Magnification :0.167x, 0.55x, 1x, 4x; 2. More uniform illumination than traditional light sources; 3. Effectively improving image clarity; 4. High resolution, low distortion, small volume, large aperture; 5. Wavelength rang 400-820nm; 6. Coaxial and Non-coaxial illumination;



### Hongshi Intelligent Technology Co., Ltd

C225

### AR Glass

Based on the Aurora A6 MicroLED micro-display chip, Hongshi Intelligent launched the AR glasses solution under this solution. This solution aims to show users that the integration of a red bean-sized display into wearable devices has huge advantages, so as to attract more people who are interested in this solution to learn about MicroLED. Hongshi Intelligent will provide a complete MicroLED solution or ODM solution.



### Hongshi Intelligent Technology Co., Ltd

C225

### Aurora A6

Aurora A6 is the first 8 million nits ultra-high brightness MicroLED microdisplay chip launched by Hongshi Intelligent. Its size is only 0.12 inches. The dynamic contrast ratio is 100,000:1. Hongshi Intelligent MicroLED uses wafer-level 8-inch metal bonding technology. The product reduces costs and increases the bonding accuracy from the traditional 10µm to 1µm.



**Kemet Far East Pte Ltd**

B336

**Kemet Single Sided & Double-Sided Lapping & Polishing Machines**

With over 80 years' experience in process development and customer support, we have the knowledge to provide a complete lapping process for all your surface finishing needs. We offer a comprehensive selection of diamond abrasives (diamond slurry, liquid diamond, diamond suspension, diamond paste and diamond compound) and conventional abrasive powders and lapping pastes (silicon carbide, aluminium oxide). We offer the widest range of lapping plates and polishing pads. We can provide test and demonstrations for customers' components together with reports and recommendations to ensure that you have the right lapping process and machine.

**Kemet Far East Pte Ltd**B336 **Vacuum Solvent Cleaning machines**

The latest generation KP modified alcohol washing machines, operate in a complete vacuum treatment cycle in all phases, ensuring excellent cleaning of finished products from wastage and oily substances, without releasing harmful substances into the environment. The systems use a combination of spray, basket rotation, aqueous cleaning, modified alcohols or hydrocarbons, and ultrasounds. 99% Recovery of material waste, reduction of management costs, high economic benefits, sustainability and innovation. Cleans component areas that are hard to reach with Aqueous/HFE solvents, including blind holes and tubes.

**IBD Technology Co.,Ltd.**

C334

**Ion Beam Etching Machine**

The nanoscale physical etching equipment solution using fully independently developed RF ion sources is suitable for etching special structural morphologies of various materials, with high collimation, precision, and reliability. It supports customized development for customers based on different application scenarios.

**L-Chaser Optics Ltd**

D103

**Precision Measuring Mirror**

Cubic Mirror also called Precision Measuring Mirror, suitable for metrology, spacecraft assembly, satellite assembly, instrument and optical system calibration. Off-shelf products with 20°20°20mm/15°15°15mm/10°10°10mm/8°8°8mm optional. PV better than  $\lambda/4$ , 5 surfaces metal coating; surface quality better than 3-4 grade; Crosshair width  $0.04 \pm 0.01\text{mm}$ ;



**L-Chaser Optics Ltd**

D103

Aspherical lens PV better than  $\lambda/10$ ; diameter: 20-600mm; Material: SIC, FS, Quartz, K9, Microcrystal, Si, Ge; Surface Quality: 40/20; Processing equipment includes: Optotech polishing machine, Ion Beam Polishing machine, Intelligent Robot polishing machine, Optical Vacuum coating machine etc. Detecting instruments includes: ZYGO Interferometers, DJI Measuring Instrument, Zeiss Coordinate System, Agilent Carry7000 Spectrophotometer, Trioptics Spherometer, 2.5-dimensional image measuring instrument etc.

**Optical Components-Aspherical Lens****Microvita-Instrument**

B106

At present, our company's products are widely used in coating equipment, and we are leading other companies in the research and development of RF ion source products. The company not only has 17cm, 23cm, 25cm, and 26cm products, but also is the first company to develop 30cm products. Mature technology and professional services have gained recognition from both South Korea and Southeast Asian countries.

**RF Ion Source****Moveon Technologies Pte Ltd**

B332

Moveon is a leading one-stop optics manufacturer in Singapore, specializing in optic design, prototyping, and mass production services. With a proven track record across diverse industries, including consumer electronics, automotive, medical, defense, and home security, we remain at the forefront of innovation. By continuously pushing technological boundaries, we deliver cutting-edge optical products tailored to meet our customers' needs.

**Precision Optics and Module Assemblies****Nanjing Apex Optics Co., Ltd**

D124

We can customize a variety of difficult filters, with a range of wavelengths from the ultraviolet band to the far infrared band, and have successfully provided mature solutions for a number of high-precision enterprises.

**Filters**

**Nanjing Co-Energy Optical Crystal Co., Ltd**

D204

BK7 windows, Fused Silica Windows, Sapphire Windows, Optical Windows COE Optics can afford to you excellent UV & IR grade sapphire windows with low scattering and birefringence. Those sapphire windows are an ideal material for applications where high pressure, vacuum, or corrosive atmospheres because of their extreme surface hardness, high thermal conductivity, high dielectric constant and resistance to common chemical acids and alkalis.

**Sapphire Windows****Optical Gaging (S) Pte Ltd**

B311

The SmartScope E-Series offers high-performance, 3-axis video measurement systems, known for precise and automated metrology. The series features IntelliCentric™ optical technology with fixed lenses and digital zoom, ensuring optimal image quality for accurate video edge detection. It includes advanced LED lighting, such as SmartRing™ illumination, and a durable cast base to ensure stability during measurements. Additionally, the systems are designed with multisensor flexibility, accommodating optional touch probes like the TP-20 and TP-200 for enhanced capability. These features make the E-Series ideal for a variety of industrial applications, delivering efficiency and versatility in a robust package.

**OGP SmartScope E7****Opticreate Technology, Inc.**

D112

In addition to providing the design and manufacture of precision optical components, we also design and manufacture high-end optical lenses. It mainly includes: infrared long-wave uncooled lens, infrared mid-wave cooling (double field of view, three field of view, continuous zoom) lens, non-thermal lens, laser (collimation, convergence) lens, machine vision lens, etc.

**Optical Lenses****Opto Precision Pte Ltd**

B236

Polymer optics offer a unique combination of lightweight design, high flexibility in manufacturing, and cost efficiency, making them ideal for high-volume production. Unlike traditional glass optics, polymers can be molded into complex geometries, enabling the integration of multiple optical functions in a single component. Customized coatings, such as mirror or anti-reflective coatings, can be applied to enhance their functionality, making them suitable for diverse applications. Examples of common materials include Zeonex Cyclo Olefin Polymer (COP) and Polycarbonate (PC), which offer excellent optical clarity and durability. These properties make polymer optics a versatile and innovative solution in modern optical design.

**Polymer Optics**

**Prinano Technology (Hangzhou) Co., Ltd.**

C111

**PL-SR Stepper Nanoimprint System**

PL-SR can be equipped with a high-precision inkjet printing system to achieve high-precision alignment, no residual layer control, high-precision step-stitching imprinting and other imprinting processes. PL-SR can achieve the panelization function of up to 12-inch wafers, splicing and sleeve pressing accuracy of  $<1\mu\text{m}$ .

**Qingdao GermanLitho Co., Ltd.**

C101

**GL P2 CLIV**

GL P2 CLIV is High-resolution UV Nanoimprint Lithography Equipment. Equipped with GermanLitho's CLIV (Contact Litho into Vacuum) imprinting technology as standard. It is capable of achieving high-precision (better than  $10\text{ nm}^*$ ) and high-depth-to-aspect-ratio (better than  $10:1^*$ ) nano-structural replication on G2 panels ( $370\times 470\text{ mm}$ ). The device supports automatic replication of flexible composite working moulds with high precision and long life, which can significantly reduce the cost of moulds used in large-area nanoimprinting processes.

**Satisloh Asia**

C223

**C-300 Centering**

The C-300 high precision 7-axis centering machine processes various geometries including non-circular shapes and a wide range of diameters of 10–300 mm. The first centering machine to combine force-controlled grinding and full flexibility of CNC technology, paving the way for highest speed and best surface quality.

**Satisloh Asia**

C223

**SPM-10/SPS-10 Grinding & Polishing**

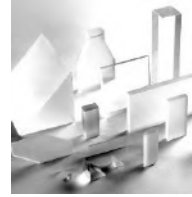
The SPM-10 micro optics grinding machine extends grinding production capabilities to include complex, small lenses, non-linear shapes, and micro optics aspheres with maximum precision and best surface finishing. It allows for the production of micro optics spheres and aspheres from the submillimeter range up to 10 mm. The SPS-10 is designed for micro-optics with the highest demands on precision and diameters from below 1 mm up to 10 mm. Its processing possibilities include the dressing of tools with integrated dressing spindle, crosscut adjustment, & optional asphere and stemp polishing.



**SD Optics Singapore Pte Ltd**

B214

This optical part is manufactured to transmit within the visible and infra-red spectrum range of up to 5700 nanometers. It is generally used for filters, detection windows, thermal imaging and IR Domes.

**Infrared Optics****SuZhou Guangduo Micro,Nano Devices Co.,Ltd C135****Fully Automatic Roll-to-plate Nanoimprint Machine**

The equipment adopts a modular design, which integrates EFEM, spin coater, HP, CP, NIL, Frame loading Unit, Pre-aligner, RF-reader and other functional modules. This device is available for both 8-inch and 12-inch substrates. The minimum line width of nanoimprint printing can reach 10nm, and the aspect ratio can reach 10:1. The alignment accuracy reaches  $\pm 1\mu\text{m}$ .

**SWCC Corporation**

B136

**High-Strength Ultra-Fine Copper Alloy Wire**

【Features】 Copper alloy with an excellent balance of strength and electrical conductivity ■ High strength (1600 MPa or greater) and high hardness (350 HV or greater) ■ High electrical conductivity (IACS rating of 60% or above) \* Specific resistance:  $3\ \mu\Omega\cdot\text{cm}$  or less ■ Exceptional elasticity (70x more elastic than pure copper) ■ Supports ultra-fine processing (10  $\mu\text{m}$  diameter) 【Applications】 ■ Vehicle wiring, seat heaters ■ Semiconductor materials ■ Medical device wiring For details, please refer to our catalogue.

**Trioptics Singapore Pte Ltd**

B204

**Goniometer (PrismMaster Flex)**

PrismMaster® goniometers are used for high-precision optical angle measurements on prisms, polygons and wedges. Even after more than 20 successful years on the market, the PrismMaster® 300 HR from TRIOPTICS continues to set the standard for accuracy in the industry. The overall concept of the PrismMaster® series follows a simple philosophy: providing an instrument with unrivalled accuracy which is also easy to use.





**Tztek Technology Co., Ltd.**

A321, A322

VMG is designed especially for large dimensions measurement. VMG adopts mobile bridge structure, the most advanced design concept and the strictest production control, which ensure the accuracy and stability of the machines. It's equipped with stable moving platform, rich optical system and abundant accessory options, which can help to meet the requirement of measurement for large workpiece effectively.

**VMG Gantry Video Measuring Machine****Wavelength Opto-Electronic (S) Pte Ltd**

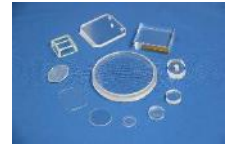
B221

LWIR, SWIR, and MWIR lenses offer unique imaging capabilities. LWIR lenses excel in low-light and adverse weather conditions, while SWIR lenses provide detailed imaging in specific industrial and security applications. MWIR lenses are ideal for scientific research and specialized imaging tasks. Customization options are available to tailor these lenses to specific requirements. Please provide your specifications in the RFQ form.

**SWIR, MWIR & LWIR Lenses****WTS Photonics Co., Ltd**

C236

WTS's optical windows can be made of different materials according to customer needs, with or without AR. In addition to conventional shapes, we can also provide perforated profiling, special corners, etc. Widely used in laser protection, medical imaging, projection, etc.

**Windows****Zhongshan Mavinlens Optical Co.,Ltd.**

C335

Mavinlens' rangefinding binoculars boast superb ranging accuracy and advanced optics for the best of both worlds in one unit. The rangefinding device gives you the all-day viewing comfort of 8/10/12x42 binoculars while giving you the ability to range on the spot and not miss an opportunity. This means no more eye strain trying to observe through a traditional rangefinder, and no more wasted time switching from binoculars to your rangefinder while letting that buck slip away.

**Rangefinding Binoculars**

**Zhongshan Mavinlens Optical Co.,Ltd.**

C335

Whether round or square, with or not with PCB(for different ranging distance) , such ranging Modules can be customized according to customer's ranging requirements.

**Ranging Module with PCB****Zhongshan Sprecision Technology Co., Ltd**

C333

With the rapid development of smart phones, our pursuit of optical technology has never stopped. We provide a series of mobile phone camera module, optical lens and other core components. Our products have won the trust of our customers for their excellent imaging quality, compact design and outstanding performance. We are committed to providing innovative optical solutions to help the mobile phone industry to the next level.

**Cold working of glass aspheric surface****Zhongshan Uvata Optics Co., Ltd.**

C331

Adjustable object distance, Adjustable aperture, High resolution, Large chart imaging area

**Industrial lens**

## Laser Technology

- Lasers
- Laser Material
- Laser Component
- Laser Equipment



**GET FREE PASS**



**EXPLORE MORE  
PRODUCTS**

**Acexon Technologies Pte Ltd**

B224, B326

**FemtoFiber Laser Solutions**

Innovative laser systems tailored by our experts to advance your research! With more than 20 years of experience in femtosecond fiber laser technology and fiber laser design, TOPTICA offers innovative and custom-tailored laser systems that enable cutting-edge research in the field of quantum technology, biophotonics and solid-state physics. The range of laser systems extends from synchronized multi-arm configurations for pump-probe spectroscopy to two-color laser solutions for FLIM (fluorescence lifetime imaging) to highly advanced laser systems that emit UV and visible ultrafast pulses.

**Acexon Technologies Pte Ltd**

B224, B326

**Difference Frequency Comb**

The DFC CORE + is a robust, 19 inch compatible optical frequency comb based on Erbium fiber technology. It is the core system for applications like optical clocks, micro wave generation or phase-locking of cw-lasers and can be equipped with additional wavelength extensions and options. Its unique fCEO-stabilization is based on Difference Frequency Generation (DFG) and comes with many advantages such as high robustness and ultra-low phase noise. The DFC CORE + features an outstanding stability and accuracy which is suitable for use with the best optical clocks. A true TOPTICA's Laser

**Arima Lasers Corporation**

C131

**Laser Beam Scanning**

FEATURES 1.Laser beam movement controller. 2.USB Communication interfaces, Bluetooth as option. 3.Craft your own design scan patterns effortlessly.

**Arima Lasers Corporation**

C131

**Laser Diode with SMD Package**

Arima Lasers provides the ceramic and plastic leaded chip carrier (PLCC) type SMD package for red and infrared top emission laser. Applications 3D Sensing Application | Gesture Recognition | AR/VR | ToF Module | Distance Measurement

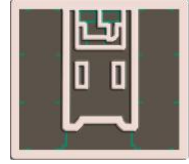


**Bomin Electronics Co., Ltd.**

C232

**AMB (Active Metal Brazing)**

AMB (Active Metal Brazing) is a ceramic metallization process, and the principle is to use active metal brazing solder to braze Cu on both sides of the ceramic substrate. The composite material forms the Copper-Solder-Ceramic-Solder-Copper structure brings higher bonding strength between copper and ceramic and better reliability than DBC.

**CamOptics (SuZhou) Co., Ltd.**

B532

**Liquid Crystal on Silicon Spatial Light Modulator LCoS-SLM**

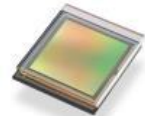
The Liquid Crystal on Silicon Spatial Light Modulator (LCoS-SLM) is a cutting-edge reflective photonic modulation device. By leveraging advanced SLM wavefront control technology, lasers achieve unparalleled precision and versatility in material processing. CamOptics LCoS-SLM stands out with its high diffraction efficiency, exceptional damage threshold, and superior light utilisation rate.

**CamOptics (SuZhou) Co., Ltd.**

B532

**Liquid Crystal on Silicon Chip**

Liquid Crystal on Silicon Chip is a reflective photonic chip. The laser is applied to precision laser processing by SLM wavefront control. CamOptics LCoS-SLM features in high diffraction efficiency, exceptional damage threshold, and superior light utilisation rate.

**Changchun Chenfeng Optics Co., Ltd**

D111

**Optical Components**

The company's optical components to ensure the source factory production, through the ISO quality management system certification, a variety of material certification, to ensure product quality and performance, quality after-sales service, professional team customization and evaluation, can do can do, can not do is not forced, professional milling and grinding process, reasonable quotation.



**Compound Semiconductor (Xiamen)  
Technology Co., Ltd**

C234

Diamonds possess the highest thermal conductivity among natural materials, with values ranging from 1000 to 2200 W/(m·K), making them the optimal choice for heat dissipation applications. CSMH can provide customized services including metallization, soldering, drilling, slotting, scribing and coating.

**Diamond Heat Sink****Compound Semiconductor (Xiamen)  
Technology Co., Ltd**

C234

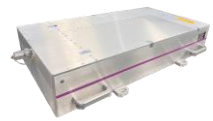
Single crystal diamond has superb hardness, high thermal conductivity, superior chemical stability, optical transmittance, an extremely wide bandgap, negative electron affinity, high insulation, and good biological compatibility, among other excellent features. It is widely used in various applications and industries. CSMH provides high quality MPCVD single crystal diamonds for different applications including thermal, optical, electrical, and quantum industries.

**Single Crystal Diamond****Dongguan Strong Laser  
Advanced Equipment Co., Ltd.**

A235

**30W UV Femtosecond Laser**

1. Applicable materials:  
High brittle material (sapphire, glass, ceramic, silicon); Metal oxides (Fe<sub>2</sub>O<sub>3</sub>, Na<sub>2</sub>O); Semiconductor materials;
2. Application:  
Engraved grating ruler; Oled cutting, repair, stripping; PI membrane cutting; Polarizer cutting;
3. Product Advantages:  
1) UV femtosecond high power (more than 30 W) output;  
2) Narrow pulse width (less than 500 fs);  
3) Support POD and Burst mode.

**EMGO-TECH Technology Co., Ltd.**

C115

**(6+1) × 1 Pump Combiner**

High pump efficiency · Stable and reliable performance · Provide customized configurations



**EMGO-TECH Technology**

C115

**500W In-Line Isolator**

High transmittance · Reverse full angle isolator · Good beam quality · Beam Diameter/fiber type optional · Suppression of thermal lens effect

**Fluence Technology**

C224

**Jasper XO**

Jasper XO is a 1030 nm high-power femtosecond laser, delivering pulses with energy up to 200  $\mu$ J and 60 W of average power. With a truly monolithic all-fiber amplified oscillator inside this laser provides fast warm-up time. Furthermore, you can count on unprecedented long-term stability and hands-free operation. The heart of the system is our unique truly all-fiber oscillator. Thanks to its unique construction and SESAM-free technology Jasper is amazingly robust and reliable. Additionally, the fiber amplifiers ensure unbeatable beam pointing stability even in a harsh environment – unlike the free-space constructions.

**Fuzhou XK Photonics Co., Ltd**

C231

**Small NA Blue Laser Module**

FUZHOU XK PHOTONICS can provide high power, small NA blue laser module for industrial application.

**Guangdong Guangwei Laser Technology Co., Ltd.**

D316

**2D/3D Crystal Laser Engraving Machine A02**

GW - A02 laser engraving machine is a model of the highest cost performance, is mainly used in studios, advertising gifts, tourist attractions and inside carving processing, etc. The device has two advantages and eight features : Advantages one: The device also has a double function of engraving and marking, operations of the two sets of software, operation simply. Advantage two: Carving material is not limited by the specifications of the device itself, leaking outside engraving of the equipment, product size can be carved carving format several times.



**Guangdong Huaruikē  
Automation Technology Co., Ltd**

C531

**Automatic Dispensing Machine**

In the optical industry, dispensing equipment is mainly used for bonding, sealing, and fixing optical components. Due to the extremely high requirements for precision and stability of optical components, dispensing equipment needs to have the characteristics of high precision, high stability, and high reliability. Common dispensing equipment in the optical industry includes: -High precision glue dispensing machine: This type of equipment usually uses precision control systems and advanced dispensing technology, which can achieve micrometer level dispensing accuracy and meet the precision requirements of optical components. -Vacuum suction dispensing machine: This type of equipment can automatically suck back excess glue during



**Guangdong Huaruikē  
Automation Technology Co., Ltd**

C531

**Automatic Soldering Machine**

The application of automatic soldering machine in optical industry is mainly reflected in the welding and packaging of precision optical components. The following is a detailed analysis of the application of soldering machine in optical industry: High degree of automation, which can greatly improve production efficiency and welding quality. Accurate temperature control and welding process control can be realized by programming. It is suitable for large-scale and batch welding of optical components.



**Guangdong Shouradium Laser  
Technology Co., Ltd**

C005

**Wafer ID Laser Marking Equipment**

The fully automatic wafer laser marking machine is mainly used for precision ID marking of various silicon wafers, sapphire glass wafers, SiC wafers; suitable for 4-inch, 6-inch, and 8-inch wafers.



**Guangdong Shouradium Laser  
Technology Co., Ltd**

C005

**Fully Automatic IC Plastic  
Package Laser Cutting Machine**

Used for precise laser cutting of plastic packages for integrated circuits such as SIP, LGA, and IC carriers, as well as for irregular shapes





### Han's Laser Technology Industry Group Co., Ltd.

C226, C227 **Laser Marking Machine HM20**

Features: It adopts the most advanced Han's MOPA laser, high-precision photoelectric galvanometer, and the maximum single point energy is 1mj, which can be used for deep engraving process of aluminum, copper, stainless steel and other materials. Applications: It is widely used in humanized signs and anti-counterfeiting signs for high-end gifts, artworks, home accessories, electronic products, auto parts, CNC blades, kitchen supplies, medical equipment and other products.



### Han's Laser Technology Industry Group Co., Ltd.

C226, C227

**30W Femtosecond Laser  
HL-FS-1030-30**

Features: 1. All-fiber modular design. 2. The spot pattern is good. 3. High stability and reliability. 4. Burst pulses: 1-16. 5. The repetition rate can be adjusted from 200kHz-1MHz. Applications: 1. Cutting and drilling of brittle materials such as glass, sapphire, ceramics, etc. 2. Film material cutting and drilling. 3. Sensor marking and etching. 4. Metal surface treatment, such as removing the black layer of copper, fine marking on the metal surface. 5. Ultra-fine processing of human implant materials, such as cardiovascular stent cutting. 6. Two-photon microfabrication. 7. Dental restoration.



### HOTLONG

D507

**Heat Sink**

Simple heatsinks without coating Simple heatsinks, coated 4-sides or 6-sides, for good toptop bottom electricalconduction.



### JD Union Pte Ltd

B212

**Lasers**

JD Union proudly distributes a diverse range of laser brands, including IPG Photonics fiber lasers and systems, Iradion DP55 lasers (formerly Innolas Photonics), Iradion CO2 lasers, Luxinar CO2 lasers (formerly Rofin-Sinar UK), Trotec lasers, Innolas Laser for scientific, Femtum mid-IR lasers, and more. We offer lasers from CW to femtosecond, covering a wide spectrum of wavelengths to meet various industrial and research needs. Let us empower your applications with cutting-edge laser technology.



**MOJI-NANO Technology**

D203

**High Precision Nanoscale 3D Printing—PROME-Uni**

Ultra-high-speed integrated nanoscale 3D processing equipment based on the multi-photon polymerization. Incorporating proprietary patented technologies, this equipment significantly enhances processing efficiency, surpassing the speed limitations of multi-photon polymerization, and catering to precise processing requirements across different scales. It features multiple stable systems, capable of long-term stable operation without maintenance. Utilizing modular opto-mechanical design, it offers exceptional flexibility and scalability. Providing a revolutionary 3D processing solution for both research and industrial applications, it is suitable for various fields including micro-optical devices, microfluidic chips, micromechanics, metamaterials, and photonic chip integration for micro/nano sensor devices.

**MOJI-NANO Technology**

D203

**Maskless Direct Writing Lithography—UV-Smart**

Desktop level maskless UV lithography equipment UV-Smart is specifically designed for laboratory research needs and small-scale production. Its compact design is well-suited for laboratory environments, featuring high writing speed, high resolution, and high alignment accuracy. With integrated design and fully automatic control, it offers easy operation, suitable for rapid prototyping or small-batch production. Widely used in fields such as microfluidics, semiconductor, biotechnology, and microelectronics.

**Optosky(Xiamen)Photonics Inc.**

C532

**ATP8130 Miniature SNIR Spectrometer**

ATP8130 NIR Spectrometer is the smallest and most cost-effective SNIR spectrometer, lightweight for easy portability and integration. It offers a spectral range of 900-1700nm and a resolution of up to 8nm for precise analysis. With a high sampling rate of up to 5kHz, it's ideal for fast-response applications like fiber optic sensing and laser measurements. Featuring a 256-pixel InGaAs linear array detector and reliable CCD mounting, it enhances stability. Optosky's custom low-noise CCD signal processing ensures top performance. Powered by a 5V DC supply via USB, it combines high performance and low cost for easy integration.

**Ruik-tech Communication (Dongguan) Co., Ltd.**

D326

**1xn Optical Switches**

RUIK is a professional fiber optic switch manufacturer that designs and produces MEMS 1xN optical switches with low insertion loss, fast switching speed, small size and reliable quality for fiber optical circuit integration or construction. RUIK also offer customized service to meet different requirements.



### Ruik-tech Communication (Dongguan) Co., Ltd.

D326 1310/1550nm 500mW OCT Module

RUIK's OCT Module is developed based on customer customization. In order to better meet customers' requirements for imaging, we have carried out targeted research and development and design. At present, fiber couplers, fiber circulators, fiber attenuators, fiber jumpers and other aspects have well matched customer needs and have been recognized. Features ♦Customization ♦Compact Size ♦Integrated Module



### Sintec Optronics Pte Ltd

B315

### Laser Cleaning Machine

Laser cleaning is a new-generation technology for removing surface dirt layer, such as rust, grease, paint, primer, etc. In contrast to traditional methods like chemical and mechanical grinding, it is a form of non-contact cleaning, that is highly effective, efficient, simple to use, cost-effective and environmentally-friendly with minimal consumables. Our cleaning machines can be easily set up, operated, automated and integrated with your existing processes. Precise and selective cleaning can be achieved through parameter optimization. The machines require minimal maintenance efforts and have a long lifetime. Demo machines are available in Singapore, contact us now for a trial!



### Suzhou Metlaser Intelligent Technology Co., Ltd

D224

### The World's Smallest 300W Laser Cleaning Machine.

The machine body is small, lightweight and portable. When paired with a safety case, it can be carried around easily. It also features convenient adjustment of system parameters and wireless control. It can efficiently remove rust, stains, oil stains, coatings and so on from the surfaces of workpieces. This system is applicable to industries such as mechanical processing, mold cleaning, food processing and electronic circuits.



### ViLaser Equipment Co.,LTD

C525

### Laser Solder Ball Welding Machine

The solder balls have a diameter of 70~2000um, which meets the trend of miniaturization; they are suitable for mass production on assembly lines with an image positioning system; the heating and droplet formation process is quick, and can be completed in 0.25; no flux is needed, and there is no pollution, thus maximizing the lifespan of electronic components; the solder balls are melted within the nozzle, without any spatter; the spray ball welding monitoring and post-weld inspection functions can be expanded. Different types of solder joints can be achieved by selecting the appropriate size of solder balls.



**Wuhan ibrntech Co.,Ltd.**

D317

**Industrial Vision**

IBRN Industrial Vision Products include all kinds of line scan lights, area array lights and controllers. Our products are of Features of high directivity and brightness, good uniformity to effectively eliminate reflection, unique heat dissipation structure increasing the service life, used for both forward light and back light, flexible customization, etc. The products are widely used in PCB, printing, lithium battery, liquid crystal industries.

**Wuhan ibrntech Co.,Ltd.**

D317

**Industrial Curing**

IBRN Industrial Curing Products include UVLED spot/line/area curing light, intelligent UVLED curing oven, UVLED curing tunnel, UVLED curing hand-held machine, UVLED inkjet curing machine and UVLED system for optical fiber drawing/coloring coating curing. Our products have the characteristics of strong irradiation, better and more stable curing quality, less heat generated, cost saving, network up time and long life. All products are equipped with multi-language human-computer interaction industrial color screen, and with adjustable power accuracy from 1% to 100% as well as fault detection function. The products are widely used in 3C electronics, optical communications, optical fiber & cable, inkjet printing.

**Yantai Huachuang Intelligent Equipment Co., Ltd**

B531

**Parallel Seam Sealing system**

The parallel seam sealing system is the high performance and specialized equipment for sealing metal and ceramic hermetic base. By vacuum baking and the sealing process in the glove box, the low water vapor and low oxygen content in the base after sealing can be effectively reduced and maintained, meeting the use requirements of long life, high performance and high reliability of electronic devices in harsh environments.

**Yantai Huachuang Intelligent Equipment Co., Ltd**

B531

**De-lidder**

The de-lidder is used for the devices with square metal lids, such as photoelectric device, hybrid circuit device, optical communication device, quartz-crystal oscillator and so on. De-lidding is non-destructive, and the de-lidder can be used for re-sealing of the lid after rework.



## Sensing

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

## Infrared

- Infrared Material
- Infrared Component
- Infrared Device

## Display

- Infrared Material
- Infrared Component
- Infrared Device



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PRODUCTS**

**Atoman Semiconductor Technology Co., Ltd** D223**InP APD**

InP-based epitaxial materials excel in the near-infrared band and possess extremely high electron mobility, making them widely used in near-infrared detection, optical communication, and high-frequency microwave radio frequency fields. With the increasing demand for data transmission efficiency in modern technology, high-speed optical communication requires continuous improvement in chip performance. To meet the performance needs of optoelectronic and RF chips, Etman employs leading MBE epitaxial production technology to provide high-quality InP epitaxial wafers to domestic and international customers.

**Focuslight (DG) Microoptics Co., Ltd.**

C121

**V Groove**

The V-groove chip supports multiple fiber arrays, offering a compact, lightweight, and durable design for modern optical communication devices. It works with single-mode, multi-mode, or polarization-maintaining (PM) fibers, ensuring precise positioning. The output can feature industry-standard connectors, with customizable fiber pitch, polishing angles, airtightness, and heat resistance. Designed for telecommunications, data transmission, optical switches, and high-power laser fiber coupling, it meets diverse application requirements.

**Focuslight (DG) Microoptics Co., Ltd.**

C121

**Silicon Single Lens**

Focuslight utilizes industry-leading optical manufacturing technologies to provide customized services for the optical communications industry, offering a variety of lens types, shapes, and array configurations to meet diverse application needs. We deliver these products with contour deviations as low as RMS <math><10\text{nm}</math>, with minimal reflectivity at AOI=0-15°R and customizable coatings. Strict quality control ensures that products perform exceptionally in complex optical systems, with dimensional tolerances of  $\pm 15\ \mu\text{m}$  with silicon or  $\pm 25\ \mu\text{m}$  with fused silica, thickness tolerances of  $\pm 10\ \mu\text{m}$ , and radii ranging from 150 to 10,000  $\mu\text{m}$ , with tolerances of  $\pm 3\%$  or lower.

**HK Carlson Industry Co., Limited**

D304

**Mask Aligner**

The mask aligner platform introduces improved imprint processing features for standard, advanced and high-end processes. It offers a user-friendly design, cost efficiency and a reduced footprint, and is the perfect tool for use in research and mid- to large-scale production. It is setting a new benchmark in full-field lithography for MEMS & NEMS, 3D integration and compound semiconductor markets, especially for a large variety of imprint applications in the field of LED, MEMS/NEMS, micro-optics, augmented reality and optoelectronic sensors using the renowned SMILE technology. It is also able to handle processes such as bond alignment and fusion bonding.





**HK Carlson Industry Co., Limited**

D304

**General Semiconductor Etcher**

The etching machine uses a high-density plasma source, offering high etching rates, good uniformity, strong particle control capability, easy maintenance, and stable performance. It exhibits excellent etching performance on various materials, including silicon, silicon oxide, silicon nitride, gallium nitride, gallium arsenide, indium phosphide, lithium niobate, metals, and organic materials.

**SINCEVISION**

D306

**High-Speed Camera-SH3-108**

SH3 is a high-end camera designed for scientific research and industrial use. It features a 20-layer PCB stacking design for optimal size and heat dissipation, along with 10Gbps Serdes on-board interconnection for fast data transfer. The self-developed array parallel storage architecture supports up to 128GB of storage, making it ideal for high-performance applications.

**SmartCore**

C006

**Ultra-narrow Linewidth Lasers**

The SmartCore's external cavity laser features higher output power, low noise and ultra narrow linewidth. It is ideal solution for multiple applications such as remote sensing, distributed temperature, strain, or acoustic fiber optic monitoring, high resolution spectroscopy, LIDAR and other precision metrology applications

- ☑ Ultra low phase noise and RIN
- ☑ Narrow linewidth (<3 or 5 KHz), long coherence length
- ☑ C-Band ITU-T DWDM wavelength
- ☑ High stability over temperature and life time
- ☑ -10-60 °C operating temperature range
- ☑ Wavelength Tunability
- ☑ Digital Controller and firmware with multiple interface options (RS232, RS-485 etc)

**Xiamen Changelight Co., Ltd**

D314

**Data Communication VCSEL**

The Changelight VLCL13CC is a 25Gb/s, 850nm multimode emission, GaAs-based oxide VCSEL designed to be used in optical communication links over 50um/125um and 62.5um/125um multimode fiber. The VCSEL has both anode electrodes and common cathode electrode on the top side of the chip. Changelight VCSELS are comprehensively tested to insure performance, wear-out lifetime, and wet-humid operating life.



**Beijing IRLENS Optoelectronic Co., Ltd**

C501

**MWIR Continuous Zoom  
IR Lens Z34C**

EFL: 15mm~300mm F#: 4 FPA: 640×512-15μm This model with the advantages of folded optical configuration for a significantly reduced optical system size, perfect optical axis consistency and strong environmental adaptability and so on.

**Chengdu HONPHO Technology Co., Ltd.**

C315

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

TS300D-01 is two-axis gyro stabilized gimbal platform, support 360° continuous rotation, Built-in HD zoom camera and middle wave infrared module (cooled MWIR) and laser rangefinder, mainly used in airborne imaging detection, recognition, tracking and ranging and positioning, etc. meet the needs of mapping, surveillance, reconnaissance and other application scenarios. TS300D-01 with reliable technology, and can be assembled in various types of UAV and other aviation carriers, it can also be assembled on ships and vehicles to meet the needs of sea and air.

**Chengdu HONPHO Technology Co., Ltd.**

C315

**YA3002B Laser Rangefinder**

The whole machine structure is integrated design, small volume and light weight, anti-shock and vibration, high reliability and strong environmental adaptability; Adopting low power semiconductor laser and unique patented algorithm, which can ensure high working frequency and long measuring range; The use of advanced transmitting antenna shaping technology, good beam quality, high coupling efficiency, strong stability of the optical axis, with good adaptability to bad weather.

**Guangdong iStar Technology  
Equipment Co., Ltd.**

D205

**iNS series Step and  
Repeat Nano-Imprinter**

iNS series Step and Repeat Nano-Imprinter equipment features automatic leveling, automatic alignment and automatic imprinting, and can be used for applications as glass master mold, fan-out imprinting, micro lens array, optical waveguide lens and MEMS etc.





**Guangdong iStar Technology  
Equipment Co., Ltd.**

D205

**i3D series Optical Surface  
Measurement Equipment**

i3D series products are non-contact optical surface profile measurement equipment independently developed by iSTAR, which features ultra precise and high-speed measurement of 3D profiles of rotationally symmetric optical elements, and can measure and analyze various types of surfaces, transparent or opaque, smooth or rough.



**Kunming Vision Infrared Co., Ltd.**

D509

**Surveillance Lenses**

100m, 500m or even 1km away objects can also be clearly displayed on the monitor. The decisive factor in this issue, in general, is the focal length of the lens, the longer the focal length, "see" the farther away, but at the same time the field of view is smaller, the results narrowed the viewing range.

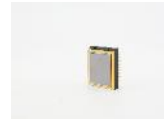


**Raytron Microelectronics Co., Ltd.**

B536

**RTD5123C**

RTD5123C is a ceramic-packaged LWIR sensor (1280×1024, 12μm) based on vanadium oxide (VOx) microbolometer with an 8-14 μm wavelength range, high-quality images with high performance and high sensitivity. RTD5123C applies to multiple scenarios, e.g. industrial temperature measurement, outdoor night vision, etc.



**Raytron Microelectronics Co., Ltd.**

B536

**INS-101L2 Line Scan SWIR Camera**

INS-101L2 line scan SWIR camera adopts high-resolution InGaAs detector with 12.5μm pixel in a 1024×1 array. It features low noise, high line rate and low power consumption, supporting Cameralink or GigE image interface, moreover, friendly SDK for secondary development are available. With built-in image correction and smart processing algorithm, this SWIR camera can be widely used in agricultural products sorting, waste recycling, Industrial sorting, photovoltaic inspection, machine vision, etc.



**Grupa Techniczna CODI**

C303

**Self-disinfecting capacitive keyboard**

The self-disinfecting capacitive keyboard is a cutting-edge innovation designed to maintain sterility and ensure user safety, especially in environments where multiple people interact with shared devices. The keyboard integrates plasma generators that cover the entire surface of the keys, creating a plasma field capable of neutralizing harmful microorganisms such as bacteria, viruses, and fungi. This self-disinfection mechanism works automatically, either continuously or at programmed intervals, ensuring a clean and safe surface after every use. Key Features: Plasma Sterilization Technology, Capacitive Touch Design, Electrical Safety and Breakdown Resistance, Compatibility and Versatility, Durable and Adaptable, Energy Efficiency

**Grupa Techniczna CODI**

C303

**Intercom with a self-disinfecting touch panel**

The intercom panel is equipped with a plasma generator that ensures automatic disinfection of the surface by generating a plasma field capable of neutralizing bacteria, viruses, and other pathogens. This process occurs either periodically or after every interaction, providing a high level of hygiene and safety for users in shared or public environments. The panel has been carefully designed to address the needs of individuals with disabilities, ensuring accessibility and usability for a wide range of users. Key adaptations include: Braille Symbols, Yellow Backlighting, Bluetooth Connectivity

**UV Technology Shenzhen Co., Ltd**

D226

**UV Led Spot Curing System**

Spot Curing System-4CH Available single controller for standard 4 heads / 8 heads / 12 heads or customized. Main features ·Multi-channel controller to make operation efficiency ·Multiple LED heads can be controlled individually or simultaneously ·Manual, Automatic, Advanced modes to be chosen ·Variety of lenses are available, with different intensities ·Variety of head sizes to meet different environments ·Signal control terminal is made in japan, safer and more stable ·MCU,PLC,PC and other external can access the setting and output ·LED head alarm function if any abnormality happens ·Special heat dissipation structure and temperature sensor makes irradiation accuracy

**UV Technology Shenzhen Co., Ltd**

D226

**UV LED Linear Light Source**

The LED-UV linear light source curing lamp device independently developed by Awellicure, uses ultraviolet curing technology to cure UV glue, UV ink, UV paint, adhesives and other ultraviolet light-sensitive materials through polymerization method, which is low power consumption, environmental protection and Efficient new generation LED light source. Features Wavelength 365nm/385nm/395nm/405nm for optional. Brand LEDs, Uniform Irradiation, Fast Curing, Customized Curing Size, Intelligent Control, Easy Operation. Multichannel circuit control



## Quantum Technology

- Quantum Computing
- Quantum Communication and Security
- Quantum Precision Measurement
- Core Upstream Components



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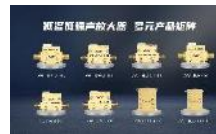


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PRODUCTS**

### ChengDu Data Automation System Technologies CO., LTD.

A114 **Cryogenic Environment And Devices**

Having completed the design, fabrication, validation, and commercialization of over twenty core cryogenic measurement and control chips.



### ChengDu Data Automation System Technologies CO., LTD.

A114

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

The product features "single-trigger multiple measurements" and "complex fast feedback control", with excellent signal quality and adaptability to rapid feedback, providing strong support for quantum computing.



### QuantumCTek (Shanghai) Co., Ltd.

A116

### ez-Q Fridge-Platform400

ez-Q Fridge-Platform400 includes a cryostat, a pulse tube refrigerator, an active vibration damping system, a magnetic shield, a chiller, signal transmission system, etc. Quantum CTek dilution refrigerator provides an extremely low temperature and low noise environment as low as 10mK. Continuously iterating and upgrading contributes to the stronger and more stable cooling capabilities, smarter operating systems, more reliable protection systems, and more comprehensive and user-friendly optional solutions.



### QuantumCTek (Shanghai) Co., Ltd.

A116

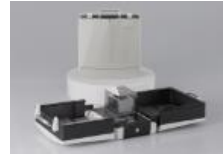
### ez-Q Engine 2.0

ez-Q Engine 2.0 is the next-generation control and measurement system developed by QuantumCTek, targeting quantum computing at the scale of a thousand qubits. This control and measurement solution consists of both hardware and software system. The hardware system comprises three main parts: the chassis platform, readout system, and control system. Each chassis can support a maximum of 128 XY channels, 320 Z channels, 8 ROO channels, 8 ROI channels, and 8 Pump channels. It is designed to support quantum computing with up to a thousand qubits using min 10 chassis. The software system is inherited and updated from the "Zuchongzhi 3" control and measurement software platform. It support to configure several thousand qubits, while also offering the capability for managing multiple quantum computers in an engineered fashion.

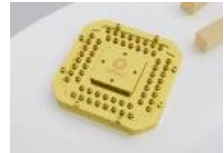


**SpinQ Technology (Hongkong) Co., Limited** A111

SPINQ Gemini Lab is the Quantum Computing Experimental Platform, that supports quantum experiments in the classroom, making it ideal for teaching and research in higher education.

**SPINQ Gemini Lab****SpinQ Technology (Hongkong) Co., Limited** A111

SPINQ QPU is the Superconducting QPU (known as the quantum chip). It's the commercially available high-performance QPUs with decoherence time ( $T_1$ ) of up to 100  $\mu$ s or more.

**SPINQ QPU****Zquantum (Beijing) Technology Co., Ltd** A115

The Guangjia series Quantum+ Security products are built on commercial encryption technology and further enhanced with advanced quantum security features, including post-quantum cryptography, quantum key distribution, and quantum random number generators. These innovations add a "second" or even "third" layer of security to traditional encryption, offering flexible, multi-layered encryption and decryption solutions for enhanced protection in various applications.

**Guangjia Series  
Quantum+ Security****Zquantum (Beijing) Technology Co., Ltd** A115

The Aurora Quantum Computing Simulator series focuses on replicating quantum computing characteristics using classical computers. Supporting up to 30+ qubit quantum circuit simulations, it offers an intuitive graphical interface for easy circuit design and code conversion for real quantum hardware execution. The platform integrates a suite of proprietary modules, including quantum circuit design and simulation, variational quantum eigensolver, quantum approximate optimization, and real-time quantum system evolution simulations. Ideal for researchers and developers exploring quantum technologies.

**Aurora ZQ-QCS30**

## Concurrent Conferences and Events

Date	Venue	Conference
26 February 13:00-17:30	Conference Room	<a href="#">Quantum Singapore 2025</a>
26 February 13:00-16:00	Technical Theatre	<a href="#">Machine Vision and Robotics Enabling Industrial Intelligent Manufacturing Forum</a>
26 February 16:15-17:45	Technical Theatre	<a href="#">EPIC Tech Watch</a>
27 February 9:00-17:00	Conference Room	<a href="#">Photonics@SG 2025 Conference</a>
27 February 10:00-12:00	Technical Theatre	<a href="#">2025 Photonics Empowering Electric Vehicle Technology Forum</a>
27 February 14:00-17:00	Technical Theatre	<a href="#">2025 EUROPE meets ASIA - Innovation in Photonics by W3+, IVAM &amp; EPIC</a>
28 February 10:00-12:00	Technical Theatre	<a href="#">Photonics Technology Empowering Semiconductor Manufacturing Forum</a>
28 February 9:00-12:00	Conference Room	<a href="#">Forum on Advanced Photonics and Flat Optics</a>
28 February 14:00-17:00	Conference Room	<a href="#">Asia Semiconductor Conference</a>

Date	Venue	Event
26 February 10:00-11:00	Conference Room	2025 Asia Photonics Expo Opening Ceremony
27 February 16:30-18:00	VIP Lounge	<a href="#">Happy Hour</a>
26-28 February	All Around Singapore	<a href="#">Site Tour</a>

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