Focus on Optoelectronics technologies & applications in Automotive Electronics

As intelligent driving technology continues to innovate, LIDAR, millimeter wave radar, and on-board smart cameras in vehicles will not be the only choice of intelligent driving. As a professional exhibition covering the whole industry chain of optoelectronics, CIOE will provide core components and manufacturing equipment for Tier 1, Tier 2, OEM, etc.

Exhibit Profile

On-board cameras & modules, 3D sensing, LIDAR, millimeter-wave radar, in-vehicle infrared night vision systems, optical fiber & cables/ optical fiber sensors, optical materials and components like filters, the application of 5G technology in IoV, machine vision system and application, lasers, laser equipment, high-end intelligent equipment, AR.

Visitor Profile

Tier 1, Tier 2, automotive OEMs, sensor suppliers, system solution providers, automotive electronics, intelligent driving startup enterprises, research institutes, universities, investment and financing institutions.

Key Exhibitors

*Exhibitors listed in no particular order

6 Concurrent Sub-Expos at CIOE 2020
SureStar

Navigation and obstacle avoidance for autonomous vehicles by updating real-time 3D imaging with frequencies from 20-80 Hz. Larger field of view (150° horizontal field of view), longer range (200 m @ 20% reflectance) and more High resolution. It adopts automotive-grade semiconductor lasers, photoelectric sensors, signal processing chips, all-solid-state laser transceiver module, which has the advantages of low cost, small size, low power consumption, high reliability and strong environmental adaptability.

Neuvition Technology (Xiamen) Co., Ltd. 2E33, 2E34

Neuvition's high definition LiDAR that supports up to 480 vertical lines and 3550 pixels per line. Titan M1-Plus generates a point cloud of up to 2,000,000 points per second in a field of view of horizontal 80° by vertical 25°, with a range of up to 200 meters. The frame rate can be dynamically adjusted from 1fps to 20fps through API. The system can work well from -20°C to +65°C.

ACUS TECHNOLOGY CO., LTD. 2E43

Cyclops is a high performance single point TOF radar ranging sensor for static vehicle checkers, precision measurement and more. It can meet the requirements of high data reload rate and different distance measurement of short, medium and long distances. The sensor is optimized with optics, structure and algorithm to makes the range measurement more accurate and the anti-optical interference capability stronger, which can work under all-weather weather conditions such as rain, snow and fog, and self develop the integrated data processing algorithm.

SCG Hong Kong SAR Ltd 2D43

This imaging Single Photon Avalanche Diode (SPAD) array with integrated CMOS components consists of 400 x 100 arrays of selectable SPAD pixels are individually addressed. This high-resolution time-of-flight (TOF) image sensor for 3D ranging uses a column-by-column readout architecture, so a 40k array of component requires only 100 readout channels. It is ideally suited for automotive LiDAR as well as 3D sensing applications for industrial, transportation and robotics.
Shanghai Jolyou Intelligent Technology Co. 2D41

**OPNE8008 3D Time-of-Flight Sensor Evaluation Kit**

Featured by self-developed 320x240 pixel 850mm NIR ToF sensor chip and algorithm design, it adopts pulse modulation, with high precision, low power, sunlight resistance, resistance to the reflection of different materials, ranging distance 0.15~5m, accuracy <1%, dimension 20mmx50mmx30mm, with USB3.0 interface. Easy to use, up to international advanced level.

Hypersen Technologies Co., Ltd. 2D01

**HPS-3D160 Solid-State LIDAR**

76° x 32° field of view, 160 x 60 resolution, high SNR, all digital outputs support 16 groups user-defined sensitive area settings, each group supports multiple customized sensitive areas, rich interface, support for USB, RS-232, IO, LAN, support GPIO input synchronous measurement, up to 15m measurement distance, excellent ambient light suppression capability, built-in anti-interference algorithm, supports multi-computer operation, all-solid-state structure, industrial-grade IP67 waterproof design.

Supports Simple-HDR mode, Auto-HDR mode, and Super-HDR mode. It has good scenario adaptability.

LorenTech (Beijing) Co., Ltd. 2E23, 2E24

**Lorentz I Series Solid State LIDAR**

LorenTech all-solid-state lidar offers the advantages of all-solid-state high reliability, resistance to bright light interference, and long measuring range, combined with 3D point cloud and RGB fusion, with intelligent detection and positioning function. Widely used in various levels of autonomous vehicles, unmanned delivery vehicles, robots and AGVs; perimeter protection, area monitoring, personnel monitoring and behavior monitoring and pre-warning; port automation, storage automation; and intelligent transportation, smart city, etc.

Hangzhou LuminWave Technology Co., Ltd 2E49

**3D TOF sensor**

It provides a true solid-state imaging-grade LIDAR module with high resolution and large FOV at a significantly reduced cost, approaching the cost of the camera. Our unique LuminScan™ beam control system enables dynamic selective scanning (ROI) and programmable resolution become possible. In addition, our micro-lidar products provide a low-power solution for hand and body gesture recognition for human-computer interaction in smart devices.
Mantis Vision Technology Ltd.  

Mantis Vision has the world's leading 3D and computer vision technology, based on its patent mask-coded 3D structured light technology, providing advanced high-resolution 3D structured light modules for a wide range of applications, mobile software and hardware solutions. Built-in 3D modules ensure high-quality 3D content capture, face recognition, AR/VR and other scenarios through 3D modules embedded in smart terminals.

Ningbo Rexi Technology Co.  

In addition to VCSEL chip products, RaySea provides light source/ToF projection light module products with different power, field-of-view and module sizes for different applications. It allows to customize customer needs of human eye safety protection mechanism. FOV for the module products: 60x45, 72x55, 86x68, 110x90, etc. Module size: 3.2x2.2x1.2, 3.5x3.2x1.3, 3.5x3.5x2.0, and 3.5 x3.5x1.6, etc. Applicable fields: facial recognition, gesture recognition, drones, sweeping robots, fatigue detection, security cameras and so on.

Xian Chishine Optoelectronics Technology Co., Ltd  

The 3D Smart Scanner Fingo S1, a 7.0” large screen slim and flat body with embedded computing ability and a "cloud" computing storage technology, free from PC connection and field limitations, able to scan and output the clear, colorful 3D models anytime and anywhere. Built-in powerful 3D fun creative app, which makes 3D design more intelligent through algorithm-driven models.

Xi'an Zhisensor Technologies Co., Ltd  

Low cost and high reliability solid-state LiDAR has become the focus of many manufacturers. Insight Microsensing provides MEMS solid-state LiDAR core scanning module, which replaces the traditional mechanical rotation device and has advantages of large scanning angle and high scanning resolution, small size, low cost and low power consumption.
ZHEJIANG SUNNY OPTICAL INTELLIGENCE TECHNOLOGY CO., LTD. 7B56  
Vehicle-mounted rear-view mirror head

Powerful waterproof performance, allowing users to wash the car assured, special hardened waterproof membrane, resistant to a variety of harsh environments, excellent optical distortion correction, to provide a realistic real-life experience, excellent temperature characteristics, always protect the high clarity effect.

Sunny Optical Technology (Group) Ltd. 7B56  
HUD Head-Up Display

Safe driving does not bow down, start the smart driving journey by projecting to the front glass, providing drivers with a variety of driving information, making driving easier and safer.

Sunny Optical Technology (Group) Ltd. 7B56  
Long wave thermal imaging lens

Thermal imaging lenses, including manual focus, motorized focus, thermalless, zoom, and various other focus methods.

ZHEJIANG SUNNY OPTICAL INTELLIGENCE TECHNOLOGY CO., LTD. 7B56  
Thermal imaging lens

Self development and production of infrared glass materials, it is the world's first infrared manufacturer covering materials, polishing, turning, molding, coating, lens assembly. Main products include non-thermal, electro-adjustable, hand-adjustable and continuous zoom lenses in the applications of automotive night vision, consumer electronics, research and teaching and other emerging fields. Their in-vehicle products can match a variety of detectors, and they supply a variety of focal lengths to meet customer demand for customization.
Jiangxi Lianyi Optics Co., Ltd. 7A45 In-car Lens Products

LCE-Optics has a complete in-vehicle product line, including surround/rear view, front view sensing, and in-vehicle surveillance lenses. It is one of the two lens manufacturing companies certified by Mobileye, a world-renowned algorithm company, and has also partnered with Tesla, Baidu, Valeo, Aptiv, Bosch, Panasonic and other well-known companies.

Phenix Optics Corporation Limited 7B36 Module products

Based on the development and creation of various types of optical lenses, Phenix Optics has extended its optoelectronic products to the entire module product system. The module products developed and manufactured by Phenix have been used in digital, security, automotive, industrial production, medical and other fields.

DONGGUAN JIUZHOU OPTICAL CO., LTD 7B56 Car logger lens HK-8246

Applied image series: Car logger, aerial photography, home cloud WIFI, video intercom doorbell, sports DV, smart wear, smart electronic cat.

Foctek Photonics, Inc. 7A47 Black light lens

Special optical design, long optical after-focus 2. Good color difference control 3. Split into two channels to achieve single lens dual sensor imaging 4. Dual sensor high-precision fine-tuning technology to achieve dual optical fusion.
Shenzhen Desay Industry Research Institute Co., LTD

7B51

Automotive Electronics Solutions

It focuses on automotive active safety and software safety, in-vehicle wireless, HUD, inertial navigation and other related projects or teams, and collaborates with Desay SV to provide R&D, production technology, marketing and other support to the project teams in the field.

Xiamen Leading Optics Co., Ltd

7B11

Recognition Lenses

For class identification * Face sizes from 1/4" to 1.1" with resolution support from 2-12 MP * Can be integrated with liquids Customizable for different depths of field and distortion.

Teledyne Photometrics

7D40

Kinetix sCMOS

The brand new Kinetix family of back-illuminated sCMOS cameras delivers a framerate and field of view unmatched by any other sCMOS camera.

SHENZHEN TRACE OPTICAL CO., LTD

7A87

Optical lens

The application fields mainly cover: car lenses, car recorder lenses, security surveillance lenses, sports DV lenses, VR panoramic lenses, and other lenses. UAV lenses and all kinds of special field lenses. The company has an experienced R&D team focusing on the field of wide-angle optical lenses. The company currently produces 18 million lenses per year. We can provide complete service from design, sample, trial production, mass production to sales.
SHENZHEN CHUANG XIN SHI XUN TECHNOLOGY., LTD.  7E81  Car pullback camera module

720P 30 fps real-time preview, good low light, excellent outdoor effects, vivid colors, UVC protocol support. No driver, plug and play, support USB2.0 OTG protocol, can access OTG devices, support linux, OTG devices, USB2.0, Android and other embedded systems.

H.P.B. Optoelectronics  7B33  Vehicle-mounted Side View Camera VN2259 Series


SHENZHEN 3NH TECHNOLOGY CO., LTD.  7B07  Resolution Test Card ISO12233

The resolution card is a standard sample that provides auxiliary tests such as vertical resolution and horizontal resolution of the actual shot. The resolution test adopts the international standard ISO12233 resolution card, which takes uniform shooting angle and shooting environment. The standard size is 1X 2X 4X 8X; size, transmission and reflection also can be customized.
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<tr>
<th>Company</th>
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<th>Description</th>
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<tr>
<td>SCHOTT AG</td>
<td>5A35</td>
<td>SCHOTT RealView™ Highly refractive glass wafers for augmented reality technology. More than 130 years of dedication and expertise in the field of super optical glass. Glass solutions perfectly matched to customer specifications. Optical glass with high homogeneity and transparency for beautiful photographic effects and light guiding properties, while minimizing the light loss. High refractive index magnifies the field of view (FoV), greatly enhancing the visual experience.</td>
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<tr>
<td>CASTECH</td>
<td>5B33</td>
<td>Precision optical components including: spherical mirrors, cylindrical mirrors, prisms, wave plates, protective windows, mirrors, polarizers, PBS and others, mainly used in laser manufacturing, laser equipment, laser cosmetic apparatus, precision lenses, micro-measurement systems, surveying and mapping instruments, military laser systems and etc.</td>
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<tr>
<td>CDGM GLASS CO., LTD</td>
<td>5C51</td>
<td>Infrared cut-off filter Blue glass is key components of low-pass filter (OLPF) which consists of blue glass and crystal which is widely used in CCD and CMOS front, or used alone, cutting off infrared light over 650nm and reducing the red light that influencing the CCD or CMOS imaging. Infrared cut-off filter (IRCF) can be used in mobile phone shooting, car, security monitoring and other products, blocking infrared through the visible light to ensure normal shooting without color cast and ghosting due to infrared interference.</td>
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| Giai Photonics Co., Ltd. | 3B41, 7B80 | Laser Rangefinder 903nm Narrow Band Filter Laser rangefinder 903nm narrow band filter (narrow band pass filter) is an optical component with relatively narrow bandwidth, of which the short and long wavelengths have a clear cutoff, allowing light of a specific wavelength to pass while light of other wavelengths to reflect (or attenuate). Main applications: for instrumentation measurement, laser rangefinder, various test systems, low light night vision and other products.
HIKARI GLASS (CHANGZHOU) OPTICS CO., LTD

Nikon is committed to the development of high quality materials used in the company's optical products and can provide them various high-precision optical materials and components indispensably applied in cutting-edge technologies. Nikon i-linear glass is a material developed to apply in i-linear lithography units (365 nm), even the large-diameter product has an extremely high transmittance and excellent homogeneity.

ZEMAX Optical Technology Consulting (Shanghai) Co., Ltd.

LensMechanix is for mechanical engineers who design the industrial design of optical products in CAD software, to obtain the full design package for optical systems in OpticStudio. They can begin immediately after loading the design package of the optical design. It ensures that the mechanical structure does not compromise optical performance before prototyping.

ZHONGSHAN ZHONGYING OPTICAL CO., LTD

Mobile phone lenses: All kinds of mobile phone lenses from 2M to 16M, including ultra-thin, wide angle, large aperture and cost-effective solutions. and low-cost solutions.

Optrontec Inc.

Main applications: automotive OEMs, optical materials and components, AR/VR, mobile phones, automotive electronics, consumer electronics/entertainment, lenses and camera modules in the advanced manufacturing.
### Core Technology

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<th>Company Name</th>
<th>Booth No.</th>
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<tr>
<td><strong>Trumpf (china) Co., LTD</strong></td>
<td>2B32</td>
<td>3D sensing VCSEL</td>
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<tr>
<td>Trumpf's 3D Sensing VCSEL for consumer electronics has stable product quality and abundant shipment capacity. Used by the most mainstream mobile phone manufacturers, with over 5 years of high shipment volumes to date. VCSEL, originated from Europe, serving the world! 4mm, perfect for R&amp;D labs and production lines.</td>
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| **Shenzhen Raybow Optoelectronics Co., Ltd.** | 2826 | 905nm high power semiconductor laser single tube chip |
| LIDAR technology is rapidly improving in the fields of ranging, mapping, and exploration, as well as in the fields of drones and service robots, and every year the traditional optical ranging market needs to ship 6 million new 25W chip model RB-905A-74-25-0.75-SE, with 3-layer luminescence node, the size of the electron injection zone 74μm x 10μm, photoelectric conversion efficiency of 49%. Fast axis divergence angle of 30 degrees, slow axis divergence angle of 14 degrees. |

| **Jingxi Diffraction Optics Technology Co., Ltd** | 2D115 | Diffractive Optical Elements (Grating) |
| Diffractive optical elements (DOE) products are widely used in intelligent sensing identification, viewfinder, focus light, intelligent security monitoring, medical laser, robot vision, 3D computer vision, stage lighting and other fields. |

| **Jiangxi Deray Photoelectric Technology Co., Ltd.** | 2C05 | 940nm VCSEL chips |
| Excellent optoelectronic performance, characterized by extremely low threshold current, small beam quality, small far-field divergence angle, high reliability and stable wavelength, narrow wire width; mainly used for 3D face recognition. |
**GLOBAL SENSOR TECHNOLOGY, LTD**

**1A32**

WLP Uncooled IR Detector

Wafer-level-package Uncooled IR Detector Resolution and pixel pitch:
- 640*512/12μm, 400*300/12μm,
- 256*192/12μm, 400*300/17μm,
- 120*90/17μm

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**IRay Technology Co., Ltd**

**1B11**

Xsafe Infrared Car Night Vision System

IRay new generation car infrared night vision system, IATF16949 certification, faster to detect danger, no fear of night, fog, haze, anti-glare, pedestrian recognition, maximize your safety.

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**FUJIAN FORECAM OPTICS CO., LTD**

**1C25**

On-board Lens

The self developed automotive lens belongs to dual-use technology applications, with a more advanced optical design, a large wide-angle lens, compared to ordinary lens products. Can achieve a wide range of clear imaging, a wider field of view, and better control in product stability, high and low temperature applications. This in-vehicle products belong to high-end core technology products, widely used in ADAS (Advanced Driver Assistance Systems), fatigue monitoring, driving record, etc.

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**NORTH NIGHT-VISION SCIENCE & TECHNOLOGY GROUP CO., LTD**

**1B26**

HCZ-1 Vehicle-mounted thermal imaging camera

On-board thermal imaging cameras can be quickly and easily installed into a variety of vehicles currently equipped with a componentized, standardized design that can not only be installed onto the vehicle to become part of the vehicle's driving assistance system, but can also be temporarily and non-invasively installed into a variety of vehicles.
Sunny Optical Technology (Group) Ltd. 7B56

For indentation detection of ACF conductive particles in LCD module sections after COG and FOG bonding before dispensing, including the particles’ volume, distribution, compression strength and displacement. To determine the OK / NG of a panel bases on a certain criteria. It is an image acquisition of the Bump area on the LCD panel COG and FOG using a line array camera, and is finally obtained by algorithm analysis on the qualification of the detected target.

Aview Image Technology Suzhou Limited 7C71

Newly launched automatic modular on-board camera active alignment equipment, consisting of automatic loading and unloading module, plasma cleaning and activation, dispensing, active alignment and UV curing parts, compatible with all kinds of on-board camera active alignment assembly needs, each unit has a self-test function, one key to start and change the product configuration, more flexible layout in the production line, can be fully automatic operation as a whole, or stand-alone operation, to meet customer needs for more in-depth and more convenient on-board camera production.

Hexagon Metrology (Qingdao) Co., Ltd. 7B30

The flexible, highly reliable compound image measurement equipment is quipped with a variety of sensors, it combines imaging, contact and 3D scanning in one system, allowing rapid measurement of a variety of features in one setup. It is designed to meet a wide range of measurement needs.

Agilebull Technology Co., Ltd. 5C11

This line is used for the assembly of zoom lens, including the assembly of parts and accessories such as front master cylinder, front cam, front group lens, rear master cylinder, rear cam, rear group lens, fan gear, fixed grating, reduction gear box, etc.
Bruker (Beijing) Scientific Technology Co., Ltd.  

**5B18**  

**Diffractive optical element**  

A measurement system with industry-leading measurement performance and flexibility, featuring patented white light interferometry, a large vertical metrology range of angstroms to millimeters in the field of view, and the industry's highest vertical resolution and measurement repeatability. With its unique intuitive user interface and full-featured automated inspection and analysis capabilities, the system provides users with fast and efficient access to material roughness, 2D/3D surface analysis, and high-resolution imaging.

Chotest Technology Inc. 

**7C85**  

**VX3000 Series Flash Meters**  

The VX3000 Series Flash Meters feature dual telecentric, high-resolution optics, combined with high-precision image analysis algorithms and one-button, high-accuracy image analysis. In CNC mode, by simply pressing the start button, the instrument automatically locates the measuring object and matches it to the shape of the templates, measurement evaluation, report generation, truly one-click fast and accurate measurement.

Hitachi High-Technologies Corporation 

**7D65**  

**UV/Vis/NIR Spectrophotometers**  

The deuterium lamp is guaranteed for seven years and comes standard with a six-pool tower wheel, which can be operated by an Ipad.

Suzhou iVAC Coating Technology Co., Ltd 

**3D54**  

**Optical control system**  

Provide fully automatic optical control for all types of optical coating deposition applied to different vacuum equipment within various wavelength range with a resolution of up to 0.3 nm. Can be used for a variety of optical coating equipment such as electron beam evaporation, magnetron sputtering and ion beam sputtering, especially suitable for multi-layer optical coating processes. Single-wavelength and wideband operating modes are available.
Guangdong Huicheng Vacuum Technology Co., Ltd. 3B79

*Magnetron sputtering optical coating machine*

Coating area Φ2100x H1200mm/Φ1800x H1000mm/Φ1300x H700mm,
Wavelength 380nm~780nm, Be applied to AR, hard AR film, hard film, decorative film, HR film, etc.

Dongguan Huichi vacuum Manufacturing Co., Ltd. 3D56

*AR optical coating machine*

Widely used in digital products, watches, hardware and other glass, metal, plastic, ceramic material panels, parts surface, and decorative and functional film plus AF, as coating, improve surface hardness, smoothness, wear resistance, chemical resistance and easy cleaning.

IKS PVD Technology (Shenyang) Co., Ltd. 3D69

*IKS-OPT2700 Optical Coating Machine*

The IKS-OPT2700 is a large area optical thin film electron beam evaporation coating machine that consists of vacuum chamber, vacuum pump, vacuum detection and control, substrate heating system, electron beam evaporation system, ion source auxiliary system, deposition system, resistance evaporation system, film thickness monitoring system, working gas volume flow control system, workpiece rotation system, PLC controlled automatic coating. Evaporation materials like metal and germanium are commonly used in optical reflection materials. Coating of visible light color film, aluminum reflection film, AF fingerprint film, low melting point organic film, visible light spectroscopy film, visible light anti-reflection film, etc.

Buhler Leybold Optics Equipment (Beijing) Co., Ltd. 3B51

*HELIOS series of magnetron sputtering coating equipment*

The HELIOS range of magnetron sputtering systems is characterized by high and stable deposition rates, high process stability and high precision in ultra-thin films. thickness control. Available for over 200 layers and 20μm thick filters with optimal layer oxidation rates, high density, and low loss. Processable thin film devices include laser bandpass filters, stop filters, single/multi-cavity filters, chirped mirrors, polarizers, etc.
Double-plates polishing machine DS700

Upper and lower discs of internal circulation type cooling discs; sticking, anti-fall protection system; cold water circulation system; optional pressure system. Control range about 1kg; optional thickness positioning system; optional unloading system; the size of internal and external rings is changable; the cruise wheel can be changed from 5 to 4; ultra-thin product polishing; polishing liquid dripping and recycle mode; operating control panel, system includes: manual system / automatic system

A high voltage, generated by a high-voltage transformer, is applied to the X-ray tube to produce X-rays. Diffraction is produced when the formula: $n\lambda = 2dsin\theta$ is met, is received and amplified by the counting tube, and the intensity is indicated by the amplifier’s microamps. The goniometer reads out the accurate angle value. This equipment adopts PLC control technology, high automation, low failure rate, strong anti-interference ability and good system stability. Automatic measurement, just touch the touch screen or step on the foot switch. Automatic calibration is accurate and convenient, automatic scanning 10 times and take average value.

The TRIOPTICS is based on OptiCentric® detection technology and is ideal for measuring aspheric eccentric tilts in combination with a non-contact displacement sensor for measuring the symmetric axis of the aspheric surface relative to the optical axis of the lens.

New development for high-precision 3D scanning of small parts in the ultra-fine field, based on a stylus with a minimum diameter of 125µm®. MPP-NANO® realizes 3D scanning measurement in the ultra-fine field. Equipped with an observation camera, you can easily approach the workpiece while checking its condition. The SP25M, a highly reliable scanning probe, is also available, making it universally applicable to small workpieces. High-performance image measurement functions are also available.
Han’s Laser Technology Industry Group Co., Ltd 2C31  
Vacuum Plasma Cleaners

Application: IC lead frame, PCB board blind hole drilling, lithium battery diaphragm, electronic connectors, speaker accessories, Teflon PTFE material, motor accessories, LCD ARRAY (glass processing), LCD CF (glass processing), aluminum foil, silver film, fingerprint module, camera module, earphone diaphragm, mobile phone frame, ITO glass, sapphire substrate plasma cleaning modified to remove static electricity.

Wuhan ZhongGu Lianchuang Photoelectrics Technology Co., LTD. 2A16  
Handheld laser welding machine

Using the latest generation of fiber laser, equipped with self-developed laser welding head, to fill the blank of handheld welding in the laser equipment industry. With advantages of simple operation, beautiful weld seam, fast welding speed, no consuming, to welding the thin stainless steel, iron, galvanized plate and other metal materials, can perfectly replace the traditional TIG welding, electric welding and other processes. The handheld laser welding machine can be widely used in complex and irregular welding processes.

Shenzhen Vilaser Equipment Co., Ltd 2D94  
Tin wire laser welding machine

Semiconductor laser welding system: using infrared semiconductor laser module, laser power optional; can fully control the welding effect and avoid damage to welded parts. The temperature controlled laser welding system can detect the temperature of a tiny area of 1mm with an accuracy of 10°C. Post-solder inspection, which can detect defects such as soldering, solder leakage and burns.

Sapphire Laser Technology Co., Ltd. 2C01  
Laser Marking Machine

Fiber laser marking machine is a new technology product that integrates fiber laser technology, computer control, mechanical and automatic control technology. The system uses the fiber laser has a long service life, high reliability, maintenance-free host, can work for a long time, most of the Metal materials can be processed. We have installed a special software for Windows platform. The user can operate the machine directly from the user interface, or edit the graphics with AutoCAD and other software, then start marking via the software.

Information Classification: General
New Venue, New Venture

CIOE will start its new journey at Shenzhen World Exhibition and Convention Center with larger exhibition area and better facilities. Plan your visit with your traffic guide and check out where will be your closest spot to get on our shuttle bus.

During non-exhibition period

CIOE has launched its official English WeChat account for delivering more industry news and marketing analysis for you to get to know China’s market better. Scan the QR code on the right or search CIOE Shenzhen in WeChat to follow.

CIOE 2020 Floor Plan

FLOOR PLAN

China International Optoelectronic Exposition (CIOE 2020)
September 9-11, 2020    Shenzhen, China