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# INTELLIGENT LIGHT

## EXHIBITOR INFORMATION



2021年3月17-19日      MARCH 17-19, 2021  
上海新国际博览中心      SHANGHAI NEW INTERNATIONAL EXPO CENTRE

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# 慕尼黑上海光博会

**LASER** World of **PHOTONICS** CHINA





2020年7月3-5日，亚洲激光、光学、光电行业盛会——第十五届慕尼黑上海光博会在国家会展中心（上海）7.1H-8.1H馆顺利举办。作为每年一度的全球高端光电科技行业盛会及2020年光电行业展会风向标2020慕尼黑上海光博会现场集结了众多知名品牌，展出诸多新产品、新技术和新解决方案，为现代制造业集中展示了光电技术未来发展趋势及前景。本届展会共吸引了819家企业参展，展示面积达到53,060平方米，在安全观展方针的指引下，展会三天共接待了57,135名专业观众莅临现场参观。

On July 3-5, 2020, LASER World of PHOTONICS CHINA 2020 was held successfully in Halls 7.1H-8.1H of the National Exhibition and Convention Center (Shanghai). As the annual high-end event for the global optoelectronics technology industry, and the front-runner of optoelectronics exhibitions in 2020, LASER World of PHOTONICS CHINA 2020 posed as a gathering of the leading brands and their new products, technologies and solutions, and depicted the future trends and prospects of optoelectronics technology in modern manufacturing environments. With an exhibition space of 53,060 square meters, the trade fair attracted 819 exhibitors. With strict safety guidelines in place, the trade fair received about 57,135 professional visitors during the three days.

## 亮点回顾 HIGHLIGHTS

- ▶ **53,060** 平方米展示面积
- ▶ **819** 家展商
- ▶ **57,135** 名专业观众
- ▶ **3,369** 位精英卡用户
- ▶ **134** 个专业买家团
- ▶ **97** 场报告
- ▶ **53,060** square meter
- ▶ **819** exhibitors
- ▶ **57,135** professional visitors
- ▶ **3,369** elite card users
- ▶ **134** buyer groups
- ▶ **97** reports

## 展商满意度持续好评

### EXHIBITOR SATISFACTION REMAINS HIGH

**99%**

愿意推荐合作伙伴及同事参展  
Would recommend LASER World of PHOTONICS CHINA to business partners or colleagues

**97%**

明年会继续参展  
Would attend LASER World of PHOTONICS CHINA again

**85%**

对观众质量满意  
Were very satisfied with quality of visitors

**81%**

对展会评价非常满意  
Were very satisfied with LASER World of PHOTONICS CHINA

## 展商对哪方面满意

### Exhibitor Assessment of Laser World of PHOTONICS CHINA



主办方的服务质量  
Quality of exhibitor services provided by the trade fair organizers



展示内容的技术应用性  
Application orientation of the trade fair contents



作为亚洲领先品牌展会的角色  
Character of a leading trade fair/leading role in this branch in Asia



对观众质量满意  
Quality of Visitors

\* 来源：2020展商调研问卷  
Source: exhibitor survey report 2020

## 展商评价

## EXHIBITOR SATISFACTION

我们几乎每年都会参加慕尼黑上海光博会，应该已经参与十多次了。因为受近期北京疫情反弹影响，我们的客户也受到了一些影响。但是慕尼黑上海光博会作为行业内重要的盛会，大族激光是不能缺席的。我们此次主要希望带给新老客户一些新产品及新体验。同时也预祝本届慕尼黑上海光博会顺利圆满得举行。

**张玥，大族激光科技产业集团股份有限公司，客户接待经理**

We have participated in LASER World of PHOTONICS CHINA almost every year, at least for ten times. The recent Covid-19 cases in the Beijing has affected our customers. However, for such an important event as LASER World of PHOTONICS CHINA, Han's cannot afford to be absent. Our major purpose is to exhibit new products and offer the customers some real experience of them. In the end, I wish LASER World of PHOTONICS CHINA every success.

**Zhang Yue, Customer Service Manager, Han's Laser Group Limited**

今年的疫情对所有的供应商来说都是一个突发事件，但通快作为一个跨国企业，尽量保证对客户的供应链，后疫情时代，我们会保持初心和对市场的热忱。通快有幸从慕尼黑上海光博会成立之初便参与其中，展会是一个很好的平台，让我们的客户能够接触到最新的技术和专业的应用方案，也让同行之间相互学习，相互促进，这对市场发展而言是一个积极的助推器。我觉得激光行业以及激光在中国的发展还有很多、很长的路可以走，我也期待看到中国有更多的激光器。我们愿与行业的其他企业一同努力，推动市场、促进激光在中国市场更快、更好地发展！本届展会通快与SPI联手展示，我们相信两个品牌在合并之后，一定能够更好地服务中国市场。

**黄哲，通快（中国）有限公司，事业部总经理**

The Covid-19 epidemic made a surprise attack to all suppliers. However, TRUMPF, as a multinational company, has tried its best to keep the supply chain going. In this post-epidemic era, we will keep to our original aim and commitment to the market. TRUMPF was fortunate enough to be part of LASER World of PHOTONICS CHINA since its first opening. The exhibition is a very good platform for our customers to learn about the latest technology and solutions. It is also an important opportunity for us to learn from and help each other, which can be a booster for market development. I believe there are still many options and there is a long way to go for the laser industry and its development in China. I hope more lasers will be developed or marketed in China. We are willing to work together with other enterprises to promote the laser market, and the fast and better development of lasers in the Chinese market! TRUMPF and SPI presented a joint booth at LASER World of PHOTONICS CHINA 2020. We believe that the merge of the two brands will mean better service to the Chinese market.

**Huang Zhe, General Manager, Business Division, TRUMPF**

今年上半年新冠疫情影响还是比较大的，国家GDP也下降6.8%，公司也受到了较大影响。但从市场调研看来，虽然上半年市场需求被压抑，但从年中开始，压抑的市场需求正在爆发。我们有理由相信，无论激光加工行业还是光电子行业都将会有一轮爆发期。我们已准备就绪，以应对市场爆发需求。PI从成立之初便开始参与慕尼黑上海光博会，也就意味着我们已参与15次之多。期望在未来的岁月中，能继续与慕尼黑上海光博会走下去，一起为中国的产业升级作出我们应有的贡献。

**贾亚杰，普爱纳米位移技术（上海）有限公司，中国区销售总监**

The impact of the Covid-19 epidemic in the first half of 2020 is quite serious. China's GDP has dropped by 6.8%, and PI has also been greatly affected. However, market research shows that, although demand was suppressed in the first half of the year, it has been surging since June. We have reason to believe that both the laser processing industry and the optoelectronics industry will see a period of eruptive growth. We have been prepared for that. PI has participated in LASER World of PHOTONICS CHINA since its inception, which means that we have been here for 15 times. I hope that in the years to come, we can continue to work with LASER World of PHOTONICS CHINA and make our contribution to China's industrial upgrading.

**Jia Yajie, Sales Director (China), Physik Instrumente**

这是高德集团第二次参展慕尼黑上海光博会，但在此之前，我们连续几年都有参观这个展会。通过几年的调研，我们发现：一、展会规模非常大；二、观众群体及展商专业度高、定位精准；三、展会注重市场应用层面，契合我司品牌宣传及客户开发的需求。未来我们也会持续参与这个展会。此次疫情虽然是非常令人痛心的黑天鹅事件，但对于红外行业，还是有一定正向影响的。红外热成像技术在疫情防控中可应用于大面积人体体温筛查，所以包括我司在内，红外行业企业在业绩上都是有一定程度增长的。我认为慕尼黑上海光博会是一个非常棒的平台，通过这么多年发展能把业内主要的公司及客户吸引到这里来，是非常棒的一件事。

**金朝昊，武汉高德红外股份有限公司，高德智感市场总监**

This is the second time the Guide Group exhibited in LASER World of PHOTONICS CHINA, but we had participated as visitor for several consecutive years. Our research showed that: 1. The exhibition is very large; 2. The visitors and exhibitors are highly professional, and are just the ones we want to meet; 3. The exhibition focuses on technology applications, which perfectly suits Guide's needs in brand promotion and customer development. We will continue to participate in the future. Although the Covid-19 epidemic is a very distressing black swan event, for the infrared industry it has brought somewhat positive results. The infrared thermal imaging technology can be used in large-scale body temperature screening, an important part of epidemic prevention and control. Therefore, most infrared suppliers including us, have seen growth in this period. I think LASER World of PHOTONICS CHINA is a very good platform. Through so many years of development, it is able to attract all the major companies and customers in the industry, and that is great.

**Jin Chaohao, Marketing Director, Guide Sensmart Tech, Wuhan Guide IR Technology Co., Ltd.**



VisionChina（上海）是专业的机器视觉盛会之一。虽然疫情对市场环境带来了一定的影响，但我们的步伐没有停下，我也想借由VisionChina（上海）这个平台向新老朋友展示优选的产品和技术。今年展会多了很多新面孔，我们也在展会上碰到了不错的目标客户。VisionChina（上海）见证行业的发展进步，未来可期！

**孔笠，杭州海康机器人技术有限公司，机器视觉营销总经理**

VisionChina (Shanghai) is a professional machine vision exhibition. Although the market was affected to a certain extent by the Covid-19, our pace has not stopped. We displayed our selected products and technologies at VisionChina (Shanghai) and we met many new faces as well as numbers of target customers. VisionChina (Shanghai) has witnessed the development and progress of the industry. The future can be expected!

**Li Kong, General Manager, Machine Vision Sales & Marketing, Hangzhou Hikrobot Technology Co., Ltd.**

慕尼黑上海光博会，助力行业升级换代  
WELCOME TO LASER World of PHOTONICS CHINA



慕尼黑上海光博会

WELCOME TO LASER World of PHOTONICS CHINA

2021年展馆布局图 2021 HALL ASSIGNMENTS



W5

光学与光学制造展区  
Optics and manufacturing technology

W4

检测与质量控制展区  
Test and measurement/quality control/  
optical measurement systems

W4

红外技术与应用产品特色展示  
Infrared technology and application

W3/W4

激光器与光电子展区  
Lasers and optoelectronics

W2

激光生产与加工技术展区  
Lasers and Laser Systems for  
Production Engineering

W2

特别展示“新应用”  
Special show “New applications”

W1/OW6

Vision China  
www.visionchina.com.cn  
Shanghai 2021

中国（上海）机器视觉展暨  
机器视觉技术及工业应用研讨会  
Vision China

## 展区介绍

### EXHIBITION SEGMENTS

#### 激光生产与加工技术展区

#### Lasers and Laser Systems for Production Engineering

激光生产与加工技术致力于让中国寄希望于制造更高价值的产品。在过去的一年中，尽管全球经济形势跌宕起伏，但激光行业和激光技术研究领域依旧取得了许多令人振奋的新成就。2021慕尼黑上海光博会旨在为激光行业提供技术创新展示，不断开拓激光运用的重要平台。激光生产与加工技术展区展示范围覆盖材料加工系统、激光加工系统组件、激光增彩制造、各类材料激光加工系统、其他激光应用系统、有机和印刷电子产品的激光生产系统、材料加工原材料、系统整合等等。2021慕尼黑上海光博会将在W2馆为激光行业提供技术创新，并特别开设了特别展示“新应用”板块，开拓激光领域新应用。

Laser manufacturing and processing is an important tool for China to produce higher-value products. In the past year, despite the ups and downs of the global economy, many exciting new achievements have been made in the laser industry and laser technology research. LASER World of PHOTONICS CHINA 2021 aims to provide a platform of laser and laser application innovations. The laser manufacturing and processing area covers material processing systems, components, additive manufacturing, laser application systems, laser manufacturing systems for organic and printed electronic products, raw materials, integrated systems and more. LASER World of PHOTONICS CHINA 2021 will set up a special "New Application" section in Hall W2 to showcase laser technology innovations.

#### 部分知名展商 [激光生产与加工技术] Exhibitors (Excerpt)



#### 激光器与光电子展区

#### Lasers and Optoelectronics

2020年是激光器诞生的60周年，而在后疫情时代下，全球激光器企业也不断升级产品系列，进一步提升加工效率和降低成本。激光器与光电子展区展示范围覆盖固体激光器、气体激光器、二极管激光器、光纤激光器、其他激光器、激光系统元件、激光器零部件、激光防护设备、发光二极管、有机发光二极管、非相干光和发光源、电子光学、声光元器件、光电管、光电元件、光学系统、光学力、激光及光学软件、贴装和装配系统等。2021慕尼黑上海光博会将在W3/W4汇聚新技术新应用。

The year 2020 marks the 60th anniversary of the laser technology. In the post-Covid-19 era, laser companies around the world are constantly upgrading their products to further improve processing efficiency and reduce costs. The Laser and Optoelectronics area covers solid lasers, gas lasers, diode lasers, fiber and other lasers, parts and components, laser safety equipment, light-emitting diodes, organic light-emitting

diodes, incoherent light sources, electronic optics, acousto-optic components, photoelectric cells, optoelectronic components, optical systems, optical power, laser and optical software, mounting and assembly systems, etc, all of which can be found in LASER World of PHOTONICS CHINA 2021 at Halls W3/W4.

#### 部分知名展商 [激光器与光电子] Exhibitors (Excerpt)



#### 检测与质量控制展区

#### Inspection and Quality Control

测试与检测是工业设计与制造过程中产品质量、精度和性能等方面的重要保证。在汽车行业、航空航天、智能制造等各大领域均有广泛应用。2021年慕尼黑上海光博会的W4馆会检测与质量控制展区将为您呈现多方位、多层次的解决方案。在这样一个智能化时代下，国内外知名企业，汇聚一堂为您展示最新技术及产品应用。

Testing and inspection are crucial for the guarantee of product quality, processing accuracy and performance in industrial design and manufacturing. It is widely used in the automotive industry, aerospace, intelligent manufacturing and other major industries. At LASER World of PHOTONICS CHINA 2021, the Inspection and Quality Control area at Hall W4 will present multi-faceted and multi-level solutions from leading Chinese and overseas companies.

#### 部分知名展商 Exhibitors (Excerpt)



#### 红外技术与应用产品特色展示

#### Infrared Technology and Application Special Exhibit

随着全球红外产业潜在需求市场的不断增长，近年来红外热像仪行业发展快速，尤其是制冷和非制冷红外技术的迅速发展，推动全球红外热像仪的民用市场呈现高速增长态势，显示出广阔的应用领域和强劲的市场需求。

对军用市场，红外热成像技术已在武器装备中得到广泛应用，是现代高技术常规兵器装备中不可缺少的重要部分。对民用市场，红外热像仪在汽车、电子、安防、航空航天、工业检测、环境监测、电力、消防、轨道交通等领域的应用，民用红外热像仪行业极有可能呈现出爆发性增长据不完全统计我国红外热成像技术市场的潜在需求可达500 - 600亿元。

2021年慕尼黑上海光博会W4馆“红外技术与应用产品特色展示”，结合“2021红外探测技术前沿论坛”，为观众带来红外最新技术和产品，以及红外技术在不同领域的应用解决方案。

## 展区介绍 EXHIBITION SEGMENTS

With the continuous growth of the global infrared market, the thermal imaging industry has developed rapidly in recent years. The strong growth in cooled and uncooled infrared technologies are promoting the global thermal imaging camera market, clearly illustrated their broad application possibilities and strong market demand. Infrared thermal imaging technology has been widely used in weapons and military equipment, and is indispensable for the modern high-tech conventional weapons. For the civilian market, infrared thermal imaging cameras are used in the automotive, electronics, security, aerospace, industrial testing, environmental monitoring, power, firefighting, rail and other industries. As a result, the infrared camera market is expected to make strong growth. According to incomplete statistics, the potential demand for infrared thermal imaging technology in China can reach 50-60 billion yuan. At LASER World of PHOTONICS CHINA 2021, the "Infrared Technology and Applications Special exhibit" area at Hall W4, together with the "2021 Infrared Detection Technology Frontier Forum", will bring the latest infrared technology, products, as well as their applications in different fields.

部分知名展商 Exhibitors (Excerpt)

### ► 红外材料及元器件



### ► 红外设备及应用



## 光学与光学制造展区 Optics and Manufacturing Technology of Optics

智能时代下，光学制造区不断在升级创新，作为目前全球极具影响力的光学行业盛会，光学与光学制造主题展区将在2021年慕尼黑上海光博会的W5馆汇集光学产业链最新的亮点技术和发展趋势集中展示光学材料、元器件、镜头组件、整机仪器、光学加工设备、光学镀膜、镜头与摄像、安防与监控等各类光学产品，设备与技术。精彩内容，不容错过。

In the age of intelligent technology, the Optics and Manufacturing Technology of Optics area is constantly upgrading and innovating. The area will gather the latest technological highlights in Hall W5 at LASER World of PHOTONICS CHINA 2021, the leading influential optical industry event. The exhibition covers optical materials, components, lens components, systems, optical processing equipment, optical coatings, lenses and cameras, security and monitoring products, equipment and technologies. Do not miss the opportunity!

部分知名展商 Exhibitors (Excerpt)



## 特别展示“新应用”行业展示区 Special New Applications Area for application industries

激光技术的应用领域非常广泛，在全球和国内都已经延伸到了工业甚至人们生活的各个方面。慕尼黑上海光博会将于2021年展会同期特设立应用行业展示区，全面覆盖六大重点应用领域主要包括锂电、消费电子、微电子、重工、医疗、5G等。加速激光加工工艺对传统工艺的更新换代，为激光+自动化配套的系统集成提供更多应用场景，深度满足参观者的需求。

The laser technology is used broadly in different industries, influencing every aspects of the industry and even people's daily life. LASER World of PHOTONICS CHINA 2021 will set up a special "New Application" area to exhibit key laser and optical applications in six industries: lithium battery, consumer electronics, microelectronics, heavy industry, medical care, and 5G. The area aims to accelerate the upgrading of laser processing technology, and to provide more application possibilities for laser + automation systems in order to meet the visitors' needs.

## 中国（上海）机器视觉展暨机器视觉 技术及工业应用研讨会 Vision China



伴随着智能制造的发展，机器视觉在工业生产中的重要性日渐凸显，Vision China（上海）作为国内集规模、专业性及权威性于一体的机器视觉展览会，展品范围涵盖机器视觉核心部件及附件，包括智能相机、板卡、软件包、图像处理系统、机器视觉集成等全产业链。展会汇集了应用于电子、半导体、质量包装检测、机械自动化、食品、医疗、轨道交通等众多领域的新产品、新技术、新应用及解决方案。同期论坛将以机器视觉与人工智能为主题，紧随行业热点及市场趋势，带来前沿技术与最新案例分享，为企业、专家与用户提供有效的沟通平台！

As industrial manufacturing becomes more intelligent, the machine vision technology is becoming more and more important. Vision China (Shanghai) is a large, professional and influential machine vision exhibition covering all the core and peripheral machine vision components such as smart cameras, IC boards, software packages, image processing systems, and integrated machine vision modules. The exhibition brings together the new products, technologies, applications and solutions in electronics, semiconductors, quality packaging inspection, machine automation, food, medical, rail transportation and many other fields. The support forum will focus on machine vision and artificial intelligence and address hot topics and trends in the industry. With cutting-edge technology and the latest practices, they will provide an effective communication platform for enterprises, professionals and users!

部分知名展商 Exhibitors (Excerpt)



## 观众满意度再次增长 VISITOR SATISFACTION

99%

推荐展会给相关  
合作伙伴和同事  
would recommend  
LASER World of  
PHOTONICS CHINA to  
business partners of  
colleagues

98%

明年会继续参观  
would attend LASER  
World of PHOTONICS  
CHINA again

95%

对展会效果满意  
were very satisfied with  
LASER World of  
PHOTONICS CHINA

95%

认为展会对他们有帮助  
thought LASER World of  
PHOTONICS CHINA was  
beneficial for them

## 观众来源（按行业） VISITORS' INDUSTRY SECTORS

32%	光学 Optics
20%	工具制造/工程机械 Tool making/Engineering machinery
16%	电气工程/电子/半导体 Electrical engineering/ Electronics /Semiconductors
4%	高等院校 Colleges / Universities
4%	汽车工程 Automotive engineering
3%	数据处理/电信 Data processing/ Telecommunications
3%	化工/制药行业 Chemical/ Pharmaceutical industry
2%	航天/航空 Aviation/ Aerospace
2%	专业技术服务 Skilled trade
2%	医疗/生物技术 Medicine/ Biotechnology
2%	环境监测 Environmental monitoring
1%	商贸 trade with optical technologies
1%	行政管理/政府当局 Public administration/ Public authorities
1%	非大学研究机构 Non-university research institutes
1%	光伏 Photovoltaics
1%	交通运输 Traffic and transport
1%	服务 Services
1%	其他 Other

\*多选 Multiple responses possible

## 观众来源（按性质） VISITORS' AREAS OF RESPONSIBILITY

31.54%	管理 Management/Head of company
14.84%	应用研发 Applied R&D
14.19%	销售/市场 Sales/Marketing
8.40%	研发管理 R&D management
7.58%	制造/生产 Manufacturing/Production
7.12%	设计 Design
4.60%	基础研究 Basic research
4.16%	采购 Purchasing/Procuring
4.15%	工程 Engineering
1.63%	学生/非就业 Pupil/Student/Not working
1.06%	质量管理 Quality management
0.49%	财务/会计/控制 Finance/Accounting/Controlling
0.36%	培训 Training

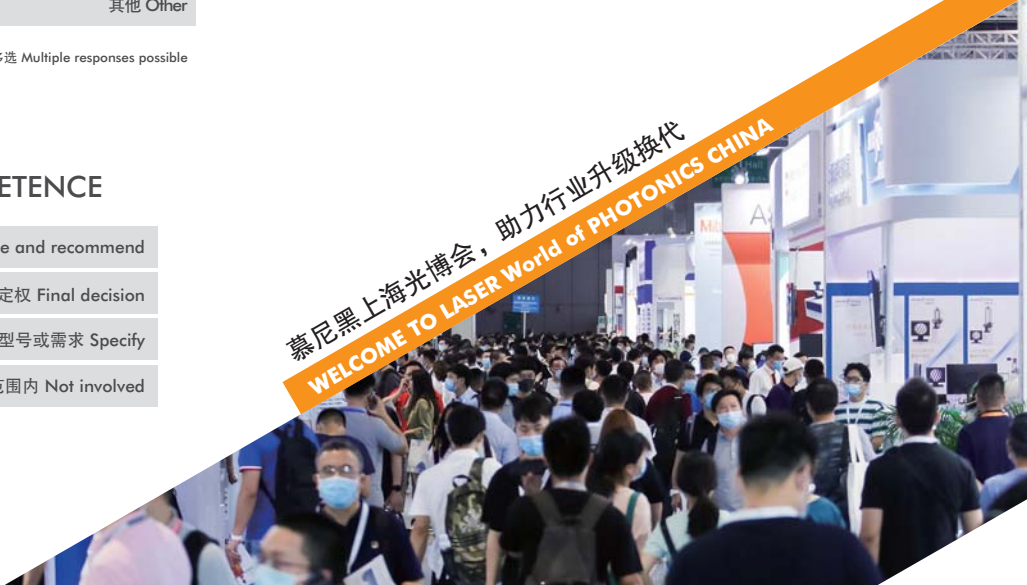
\*多选 Multiple responses possible

## 观众采购决策力 HIGH DISCRETIONARY COMPETENCE

49.20%	为决策者提供评估信息或推荐 Evaluate and recommend
22.60%	最终决定权 Final decision
14.90%	指定具体型号或需求 Specify
13.20%	不在决策范围内 Not involved

\* 来源：2020观众调研问卷  
Source: visitor survey report 2020

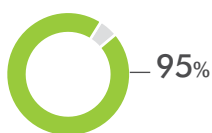
慕尼黑上海光博会，助力行业升级换代  
WELCOME TO LASER World of PHOTONICS CHINA



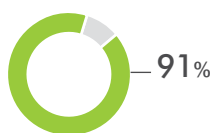
# 慕尼黑上海光博会 WELCOME TO LASER World of PHOTONICS CHINA

您对于2020慕尼黑上海光博会在以下几个方面的评价如何

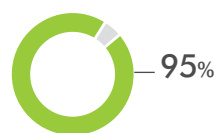
How do you evaluate the following aspects of LASER World of PHOTONICS CHINA 2020?



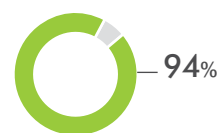
对展品范围的  
完整度满意  
Satisfaction of exhibit range  
completion



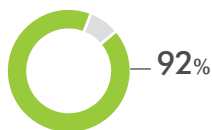
对展区划分的  
清晰度满意  
Satisfaction of clarity of  
product range



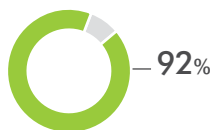
对业内领先企业的  
参与度满意  
Satisfaction of  
industry leader participation



对国内展商的  
参与度满意  
Satisfaction of domestic  
exhibitors participation



对展会推广的满意度  
Satisfaction of promotion of  
the trade fair



作为亚洲领先品牌展会的  
角色满意  
Satisfaction of character of  
a leading trade fair/  
leading role in this branch in asia



主办方提供的  
观众信息的质量满意  
Satisfaction of quality of visitor  
information provided  
by the trade fair company



注册流程满意  
Satisfaction of  
Registration procedure

## 观众对于展区领域的评价

### VISITED PRODUCT AREAS AND ASSESSMENT

5=excellent 优秀 4=very good 很好 3=good 好 2=fair 一般 1=poor 差			
激光器和光导发光元件 Lasers and optoelectronics	98.1	1.3	0.6
光学 Optics	97.5	1.9	0.6
光学生产技术 Manufacturing technology for optics	97.9	1.5	0.6
传感器、测试测量 Sensors, test and measurement	97.9	1.5	0.6
服务 Services	97.5	1.9	0.6
激光加工系统 Laser systems for production engineering	97.5	1.7	0.8
光学信息技术与光通信技术 Optical information and communication	97.1	2.1	0.8
光学测量与质量控制 Optical measurement systems	97.3	2.3	0.4
生物光子学及医学工程 Biophotonics and medical engineering	96.1	3.3	0.6
成像技术 Imaging	96.9	2.7	0.4
照明与能源 Illumination and energy	96.3	3.1	0.6
机器视觉 Machine vision	97.1	2.3	0.6
安全技术 Security	95.7	3.5	0.8

## 观众感兴趣的展示范围

### VISITOR'S INTEREST of DISPLAY RANGE

34.93%	激光生产与加工技术展区 Lasers and Laser Systems for Production Engineering
19.20%	成像，机器视觉 Vision China (Shanghai)
18.03%	光学与光学制造 Optics and Manufacturing Technology for Optics
16.56%	激光器与光电子展区 Lasers and Optoelectronics
11.61%	检测和质量管理展区 (红外技术及应用) Optical Metrology and Quality Assurance (Infrared Technology and Application Area)

## 特别展示“新应用”行业展示区 SPECIAL NEW APPLICATIONS AREA FOR APPLICATION INDUSTRIES

- ◆ 锂电
- ◆ 消费电子
- ◆ 微电子
- ◆ 重工
- ◆ 医疗
- ◆ 5G
- ◆ Lithium battery
- ◆ Consumer electronics
- ◆ Microelectronics
- ◆ Heavy industry
- ◆ Medical
- ◆ 5G application

\* 来源：2020观众调研问卷  
Source: visitor survey report 2020

## 观众评价

### VISITOR SATISFACTION

此次来参加慕尼黑上海光博会主要是来看看当前的光电产品在汽车上的应用。光电产品目前在我们汽车行业里的应用是非常广泛的，包括高级辅助驾驶，里面会应用智能传感器、激光雷达的模组、还有双目单目摄像头、这些已经在应用了。光学电机薄膜也逐渐应用在汽车行业领域。

我基本上线上线下论坛都会参加，包括机器视觉、智能驾驶的应用领域。每一年，我都会参加慕尼黑上海光博会，希望展会可以越办越好，带来更多新技术新产品的展示！

**王瑞芳，爱达克车辆工程（上海）有限公司，工程师**

Our aim at LASER World of PHOTONICS CHINA 2020 is to find out about the current applications of optoelectronic products in automobiles. Optoelectronic products are now widely used in automobiles. For example, advanced driver assistance uses smart sensors, lidar modules, and binocular or monocular cameras. Optical motor films are also increasingly used.

Basically, I will participate in both offline and online forums concerning the application of machine vision and intelligent driving. I will participate in LASER World of PHOTONICS CHINA every year, and I hope the exhibition can get better and better, and bring more new technology and new products to us!

**Wang Ruifang, Engineer, Edag**

我每年都会来慕尼黑上海光博会，感兴趣的是电子行业，汽车，汽车新能源这部分，会大量用到激光焊接、激光切割、激光器，关注设备较多。在疫情之下，人还是很多的，挺热闹的。激光行业是未来的朝阳产业，也是未来的趋势，行业一定会越来越好，慕尼黑上海光博会也会越来越好。

**沈孟珠，苏美达国际技术贸易有限公司，机电事业部项目经理**

I visit LASER World of PHOTONICS CHINA every year, and I am interested in the electronics, automotive, and new energy automotive applications. We mainly use laser welding and cutting technology, so I am interested in many lasers. Under such circumstances, there are still a lot of people at the exhibition and it is quite lively. The laser industry is rising and represents the future. I believe the industry will definitely get better, and so does LASER World of PHOTONICS CHINA.

**Daisy Shen, M&E Department Project Manager, SUMEC**

这是我第二次来参观慕尼黑上海光博会，去年也来过，感觉展会规模大。即使在疫情的情况下，参观人数还是很多，这次主要是来学习和了解新的镜片、5G行业和光学的相关度。希望中国整个光电行业，无论是设备还是加工技术，都会有所长进，制造业与光电人息息相关，也祝愿中国的制造业会越来越好。

**蒋孝林，德玛克冷暖设备（昆山）有限公司，销售总监**

This is my second visit to LASER World of PHOTONICS CHINA because I was here last year. I feel that the exhibition is very large. Though affected by the epidemic, the exhibition still has a lot of visitors. I am visiting to learn and understand the how the new lens, 5G and optics technology can be used in our production. I hope that the entire optoelectronic industry in China, whether equipment manufacturing or processing technology can make great progress. The manufacturing industry is closely related to the optoelectronic technology, so I wish the manufacturing industry in China will grow better and better.

**Jiang Xiaolin, Sales Director, De Mark heating and cooling equipment (Kunshan) Co., Ltd.**

我这次来主要是想了解目前主流激光品牌的技术，看看目前国内激光发展的趋势，关注、激光焊接、微加工、清洁，整体看下来收获非常多。虽然今年有疫情影响，但是来的人还是很多的，观众热情高涨，展商也很多，参观过程很开心。明年三月上海再见，希望慕尼黑上海光博会越办越好，给大家带来更多的技术导向，引进更多展商，便于了解目前创新的技术，希望国内激光技术越来越好。

**房树龙，博世汽车部件（苏州）有限公司，装配系统及专用设备项目工程师**

I am visiting LASER World of PHOTONICS CHINA for the current laser technology from mainstream brands, and the technological developments in China, e.g. laser welding, micro-machining and cleaning. Overall I have learned a lot. Although affected by the epidemic this year, the exhibition is still crowded, and the visitors are high-spirited, so do the exhibitors. The visiting has been very pleasing. See you in Shanghai next March. I hope LASER World of PHOTONICS CHINA will grow even better, and present more new technology and exhibitors, so we can easily keep up with the innovative technology. I also hope the Chinese laser technology will grow stronger.

**Fang Shulong, Engineer, Assembly System and Special Equipment Project, Bosch Auto Parts (Suzhou)**

## 电子营销大数据

### OTHER ACCOMPANYING PROGRAM



慕尼黑上海光博会，助力行业升级换代  
WELCOME TO LASER World of PHOTONICS CHINA



## 优质观众名单 VISITORS

### 汽车工程 Automotive Engineering

- 上汽通用汽车有限公司  
SAIC General Motors Co., Ltd.
- 特斯拉上海有限公司  
Tesla (Shanghai) Co., Ltd.
- 联合汽车电子有限公司  
United Automotive Electronics Co., Ltd.
- 一汽大众汽车有限公司  
FAW-Volkswagen Automobile Co., Ltd.
- 上海蔚来汽车有限公司  
Shanghai Neo Automobile Co., Ltd.
- 上海比亚迪汽车  
Shanghai BYD Auto
- 采埃孚汽车系统（上海）有限公司  
ZF Automotive Systems (Shanghai) Co., Ltd.

### 航天航空/交通运输 Aerospace/Transportation

- 上海全路通铁道装备有限公司  
Shanghai Quanlutong Railway Equipment Co., Ltd.
- 上海飞机制造有限公司  
Shanghai Aircraft Manufacturing Co., Ltd.
- 上海航空电器有限公司  
Shanghai Aviation Electric Co., Ltd.
- 航天长征火箭技术有限公司  
Aerospace Long March Launch Vehicle Technology Co., Ltd.
- 航天智造（上海）科技有限责任公司  
Shanghai Aerospace Intelligent Equipment Co., Ltd.
- 上海卫星装备研究所  
Shanghai Satellite Equipment Research Institute

### 工程机械 Construction machinery

- 河南四合重工机械设备有限公司  
Henan Sihe Heavy Industry Machinery Co., Ltd.
- 徐工集团道路机械分公司  
Road Machinery Branch, Xugong Group
- 中船重工七二五所  
725 Institute of China Shipbuilding Industry Corporation
- 三一重工  
Sany Heavy Industry
- 宝钢工程  
BSCC
- 上海三菱电梯有限公司  
Mitsubishi Elevator (Shanghai) Co., Ltd.

### 3C电子 3C Electronics

- 华为技术有限公司  
Huawei Technologies Co., Ltd.
- 苹果公司  
Apple
- 索尼公司  
Sony Corporation
- Cisco  
Cisco
- 联想集团  
Lenovo Group
- 霍尼韦尔(中国)有限公司  
Honeywell (China) Co., Ltd.

### 科研 Science

- 浙江大学山东工业研究院  
Shandong Industrial Research Institute, Zhejiang University
- 中国科学院上海硅酸盐研究所  
Shanghai Institute of Ceramics, Chinese Academy of Sciences
- 中国移动（上海）产业研究院  
China Mobile (Shanghai) Industry Research Institute
- 上海无线电设备研究所  
Shanghai Institute of Radio Equipment
- 辽宁增材技术研究院  
Liaoning Institute of Additive Technology
- 清华大学  
Tsinghua University

### 自动化 Automation

- 巴鲁夫自动化（上海）有限公司  
Balluff Automation (Shanghai) Co., Ltd.
- 上海贝特威自动化科技有限公司  
Shanghai Betterway Automation Technology Co., Ltd.
- 库卡机器人（上海）有限公司  
KUKA Robotics (Shanghai) Co., Ltd.
- 通用电气公司  
General Electric
- 德州科瑞  
KER
- 三菱电机中国有限公司上海分公司  
Mitsubishi Electric China Co., Ltd. Shanghai Branch
- 施耐德电气  
Schneider Electric

### 模具 Mould

- 启泰模具工业有限公司  
Qitai Mould Industry Co., Ltd.
- 浙江川钢板板加工有限公司  
Zhejiang Chuandian Steel Plate Processing Co., Ltd.
- 东莞益奇精密五金制品有限公司  
Dongguan Yiqi Precision Hardware Products Co., Ltd.
- 应用材料（中国）有限公司  
Applied Materials (China) Co., Ltd.
- 浙江模具厂  
Zhejiang Mould Factory
- 广正模具有限公司  
Greatch Moulding Co., Ltd.

### 医疗 Medicine

- 上海复星医疗系统有限公司  
Shanghai Fosun Medical System Co., Ltd.
- 上海微创医疗器械（集团）有限公司  
Shanghai MicroPort Medical Equipment (Group) Co., Ltd.
- 日立医疗系统（苏州）有限公司  
Hitachi Medical System (Suzhou) Co., Ltd.
- 陶氏化学  
Dow Chemical
- 埃克森美孚亚太研发有限公司  
ExxonMobil Asia Pacific R&D Center
- 上海西门子医疗  
Siemens Medical (Shanghai)

### 光学 Optics

- 上海徕卡显微镜有限公司  
Shanghai Leica Microsystems Co., Ltd.
- 上海澳华内镜股份有限公司  
Aohua Endoscopy Co., Ltd.
- 明月镜片股份有限公司  
Mingyue Lens Co., Ltd.
- 海思光电子有限公司  
Hisilicon Optoelectronics Co., Ltd.
- 中航华东光电有限公司  
AVIC East China Optoelectronics Co., Ltd.
- 公牛数码科技有限公司  
Bull Digital Technology Co., Ltd.

## 部分组团观众名单

## THE GROUP AUDIENCE LIST

- 泛亚汽车技术中心有限公司  
Pan Asia Technical Automotive Center Co., Ltd.
- 杭州智微信息科技有限公司  
Hangzhou Zhiwei Information Technology Co., Ltd.
- 上海中车轨道交通科技有限公司  
Shanghai CRRC Rail Transit Technology Co., Ltd.
- 采埃孚传动系统零部件上海有限公司  
ZF Transmission System Components (Shanghai) Co., Ltd.
- 昆山全盈自动化设备有限公司  
Kunshan Quanying Automation Equipment Co., Ltd.
- 上海凌月光电科技有限公司  
Shanghai Lingyue Optoelectronics Technology Co., Ltd.
- 博世汽车部件（苏州）有限公司  
Bosch Automotive Parts (Suzhou) Co., Ltd.
- 上海跃进医用光学器械厂  
Shanghai Yuejin Medical Optical Instrument Factory
- 执鼎医疗科技（杭州）有限公司  
ZD Medical Technology (Hangzhou) Co., Ltd.
- 中国科学院上海天文台  
Shanghai Astronomical Observatory of Chinese Academy of Sciences
- 华为技术有限公司  
Huawei Technologies Co., Ltd.
- 易唯思智能自动化装备无锡有限公司  
YIWS Intelligent Automation Equipment Wuxi Co., Ltd.
- 上海芯哲微电子科技股份有限公司  
Shanghai SIMAT Microelectronics Technology Co., Ltd.
- 中科战略产业技术分析中心  
Zhongke Strategic Industry Technology Analysis Center
- 泰石克建筑机械（上海）有限公司  
Teisaku Corporation (Shanghai)
- 南京尼康江南光学仪器有限公司  
Nanjing Nikon Jiangnan Optical Instrument Co., Ltd.
- 厦门微亚智能科技有限公司  
Xiamen VIA Intelligent Technology Co., Ltd.
- 苏州大学  
Suzhou University
- 库卡工业自动化（昆山）有限公司  
KUKA Industrial Automation (Kunshan) Co., Ltd.
- 慧士通医疗器械有限公司  
Wiseton Medical Devices Co., Ltd.



## 光学技术大会组织架构 STRUCTURE OF PHOTONICS CONGRESS CHINA

光学技术大会  
PHOTONICS CONGRESS CHINA

展会同期举办了光学技术大会PHOTONICS CONGRESS CHINA，会议议题丰富，聚焦行业热点话题，主题将包括激光加工、先进激光器、红外线成像技术、激光安全、光纤激光器、人工智能等新的研发成果和进展，广泛覆盖多个激光和光电子领域。本次大会共吸引了2,678名现场观众（含机器视觉技术及工业应用研讨会听众）及12,441名线上观众，获得参会嘉宾与听众一致好评。本届会议还秉持安全参会的措施，分散式排座、会议全程佩戴口罩，保障观众有序安全听会。

The PHOTONICS CONGRESS CHINA features rich topics and the latest research advances in laser processing, advanced lasers, optical technology, IR imaging, laser safety, fiber laser and Artificial Intelligence. The conference attracted 2,678 audiences (including China (Shanghai) Machine Vision Technology & Application Conference) onsite and 12,441 online, it was well received by guests and listeners. The session also upheld the measures of safe participation, the seats are scattered in conference rooms and the attendees were asked to wear mask during the whole session to ensure the orderly and safe listening of the audience to the conference.

第十五届国际激光加工技术研讨会 (LPC 2020)  
15th International Laser Processing and Systems Conference (LPC 2020)  
线上观看 Viewing online: 4998 人次 times | 报告数 Amounts of reports: 32

### 主办单位 Organizers:

中国光学学会激光加工专业委员会  
Chinese Optical Society-Laser Processing Committee (COS-LPC)

慕尼黑博览集团  
Messe München

满意度  
Satisfaction  
97%

工业用激光器及系统使用安全培训班  
Workshop on Safety of Industrial Lasers and Systems Use  
线上观看 Viewing online: 330 人次 times  
报告数 Amounts of reports: 2

### 主办单位 Organizers:

中国光学学会激光加工专业委员会  
Chinese Optical Society-Laser Processing  
Committee (COS-LPC)  
慕尼黑博览集团Messe München

满意度  
Satisfaction  
96%

第七届中国激光市场高峰论坛  
China Laser Market Summit 2020  
线上观看 Viewing online: 2874 人次 times  
线下到场 Number of people arriving onsite: 216 人  
报告数 Amounts of reports: 10

### 主办单位 Organizers:

中国光学学会激光加工专业委员会  
Chinese Optical Society-Laser Processing  
Committee (COS-LPC)  
慕尼黑博览集团 Messe München

满意度  
Satisfaction  
98%

## 其他同期会议 OTHER ACCOMPANYING PROGRAM

激光雷达技术及应用前沿论坛  
LIDAR Technology and Application Frontier Forum  
线上观看 Viewing online: 1067 人次 times  
线下到场 Number of people arriving onsite: 138 人  
报告数 Amounts of reports: 4

### 主办单位 Organizers:

慕尼黑展览（上海）有限公司  
Messe Muenchen Shanghai Co., Ltd.

满意度  
Satisfaction  
97%

同期会议，汇聚行业最前沿技术及解决方案  
HIGH-PROFILE CONCURRENT EVENTS SHOWCASE INDUSTRY HOT TOPICS



#### 红外探测技术前沿论坛

Infrared Detection Technology Frontier Forum

线上观看 Viewing online: 1843 人次 times

线下到场 Number of people arriving onsite: 286 人

报告数 Amounts of reports: 11

#### 主办单位 Organizers:

中国科学院上海技术物理研究所  
Shanghai Institute of Technical Physics of the  
Chinese Academy of Sciences (SITP)  
慕尼黑展览(上海)有限公司  
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满意度  
Satisfaction  
98%

#### 人工智能与光学检测论坛

AI Technology Apply in Optical Metrology Forum

线上观看 Viewing online: 504 人次 times

报告数 Amounts of reports: 4

#### 主办单位 Organizers:

中国光学学会光学测试专业委员会  
COS-TCOM  
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Satisfaction  
96%

中国(上海)国际机器视觉技术及工业应用研讨会  
China (Shanghai) Machine Vision Technology &  
Application Conference

到场人数 Number of people arriving onsite: 1386 人

报告数 Amounts of reports: 24

#### 主办单位 Organizers:

机器视觉产业联盟  
Machine Vision Professional Committee

满意度  
Satisfaction  
97%

#### 展商在线论坛

Exhibitor Online Forum

线上观看 Viewing online: 825 人次 times

线下观看转播 Playback offline: 81 人次 times

报告数 Amounts of reports: 10

#### 主办单位 Organizers:

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满意度  
Satisfaction  
94%

## 总计报告数量 Total amounts of reports: 97

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