

企业宣传画册



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2024

时代国星 光芒有你
Time NATIONSTAR, Shining With You



卷首语

Preface

勇攀高质量发展新高峰

2024年是实现“十四五”规划目标任务的关键之年，是国星光电成立55周年。立足新起点，国星光电将聚焦主业，强优势拓新路；深化改革，优布局促转型；聚力创新，破壁垒当先锋，积极发挥LED封装龙头企业引领作用，为我国电子信息产业高质量发展添砖加瓦。

不忘初心再出发，凝心聚力攀高峰。我们信心坚定、步伐稳健，以不断开拓的创新精神投身于发展新质生产力的伟大实践，以时不我待的紧迫感奋进在高质量发展的新征程，敢干敢拼敢创，续写国星新荣光。

Scaling New Heights of High-Quality Development

The year 2024 marks a pivotal point in achieving the goals and tasks outlined in the "14th Five-Year Plan" and celebrates the 55th anniversary of NATIONSTAR. From this new starting point, NATIONSTAR will focus on its core business, strengthen its advantages, and explore new paths; deepen reforms, optimize its layout, and promote transformation; concentrate on innovation, break down barriers, and lead the way. As a leading enterprise in LED packaging, NATIONSTAR will actively contribute to the high-quality development of China's electronic information industry.

Reaffirming our original aspiration, we set off again, uniting our hearts and minds to scale new heights. With firm confidence and steady steps, we are committed to the great practice of developing new productive forces through continuous innovation. We forge ahead on the new journey of high-quality development with a sense of urgency, daring to act, strive, and innovate, thus continuing to write new chapters of glory for NATIONSTAR.



FOSHAN NATIONSTAR OPTOELECTRONICS CO., LTD. (hereinafter referred to as "NATIONSTAR"), established in 1969 with a registered capital of 620 million yuan, is a holding subsidiary and publicly listed company (stock code: 002449) of RISING HOLDINGS Group, a key state-owned enterprise solely owned by the Guangdong provincial government. Specializing in the research, development, production, and sales of LEDs and LED application products, NATIONSTAR is the first enterprise in China to list on the stock market with LED as its main business and one of the earliest manufacturers of LEDs. After 55 years of reform and development, NATIONSTAR has become a mainstay of the electronic information sector of RISING HOLDINGS and a leading enterprise in China's LED packaging industry, occupying an important position in the global LED packaging industry. Its display device market scale ranks among the top in China, and its White LED market scale ranks among the top in the domestic high-end application field. Its component products are core strategic suppliers for internationally renowned home appliance enterprises.

As a national high-tech enterprise and a key high-tech enterprise under the National Torch Plan, in recent years, NATIONSTAR has thoroughly studied and implemented the important expositions of General Secretary Xi Jinping on scientific and technological innovation. It has conscientiously implemented the decision-making and deployment of the Guangdong Provincial Party Committee and Provincial Government on achieving technological self-reliance and self-improvement. In accordance with the requirements of RISING HOLDINGS for scientific and technological innovation, NATIONSTAR has vigorously implemented the innovation-driven development strategy, forming a relatively complete scientific and technological innovation system in the electronic information field. It has established multiple national research platforms such as a postdoctoral research workstation and a national and local joint engineering laboratory for semiconductor lighting materials and devices, undertaken more than 20 national scientific research projects, including the National "863" Program and the National Torch Program, as well as more than 80 provincial and ministerial projects. Particularly focusing on the research and production of LED components, Mini displays, LED epitaxy and chips, and non-visual light sources, NATIONSTAR has made great efforts to tackle key core technologies and strive to solve "bottleneck" problems in the semiconductor field. It occupies a leading technological position in the fields of LED ultra-high-definition displays, new optoelectronic devices and applications, and third-generation power semiconductors. A batch of high-tech products has been successfully applied in important venues such as the 2022 Beijing Winter Olympics, the 70th Anniversary Parade of the Founding of the People's Republic of China, the Boao Forum for Asia, the Olympic Games, and Beijing Daxing International Airport. As of now, NATIONSTAR has applied for more than 1,000 patents and has been granted over 700 patents. It won the First Prize of the National Science and Technology Progress Award in 2019, achieving a major breakthrough for provincial enterprises in winning the First Prize of the National Science and Technology Progress Award. In 2021, the company won the First Prize of the Guangdong Provincial Science and Technology Progress Award for the year 2020. In 2023, it won the China Patent Gold Award and was selected into the list of "benchmark" scientific and technological reform demonstration enterprises by the State-owned Assets Supervision and Administration Commission of the State Council.

Moving forward, NATIONSTAR will persist in serving national strategies, supporting national construction, and leading industry development. We will strengthen, optimize, and expand our core LED packaging business, while specializing, refining, and deepening our presence in emerging industries such as smart displays, smart wearables, and intelligent control modules. We strive to become a world-class leader in LED packaging technology innovation, play a significant role in RISING HOLDINGS' journey towards the Fortune Global 500, and make new and greater contributions to cultivating a world-class electronic information industry cluster in the Guangdong-Hong Kong-Macao Greater Bay Area.

佛山市国星光电股份有限公司（简称“国星光电”）成立于1969年，注册资本6.2亿元，是广东省属国有独资重点企业广晟控股集团的控股上市公司（股票代码：002449），专业从事研发、生产、销售LED及LED应用产品，是国内第一家以LED为主业首发上市的企业，也是最早生产LED的企业之一。经过55年的改革发展，国星光电现已成为广晟控股电子信息板块的主力军、我国LED封装行业的龙头企业，在全球LED封装行业占据重要地位，显示器件市场规模名列国内前茅，白光器件市场规模位居高端应用领域国内前列，组件产品为国际知名家电企业的核心战略供货商。

作为国家高新技术企业和国家火炬计划重点高新技术企业，近年来国星光电深入学习贯彻习近平总书记关于科技创新的重要论述，认真落实广东省委、省政府关于实现科技自立自强的决策部署，按照广晟控股科技创新工作要求，大力实施创新驱动发展战略，形成了电子信息领域相对完备的科技创新体系，搭建了博士后科研工作站、半导体照明材料及器件国家地方联合工程实验室等多个国家级科研平台，承担了国家“863”计划项目、国家火炬计划项目等国家级科研项目20多项，省部级项目80多项，特别是聚焦LED元器件、Mini显示、LED外延及芯片、非视觉光源等产品的研制、生产，狠抓关键核心技术攻坚，着力破解半导体领域“卡脖子”难题，在LED超高清显示、新型光电子器件及应用、第三代功率半导体等领域占据技术主导地位，一批高科技产品在2022北京冬奥会、新中国成立70周年阅兵、博鳌亚洲论坛、奥运会、北京大兴国际机场等重要场所得成功应用。截至目前，国星光电已申请专利超千项，已授权专利达超700项，荣获2019年国家科技进步奖一等奖，实现了省属企业国家科技进步一等奖的重大突破。2021年公司荣获2020年度广东省科技进步奖一等奖，2023年荣获中国专利金奖，并入选国务院国资委“标杆”科技示范企业名单。

接下来，国星光电将持续以服务国家战略、支撑国家建设、引领行业发展为己任，做强做优做大LED封装主业，做专做精做深智能显示、智能穿戴、智控模块等新兴产业，努力成为世界级LED封装技术创新领导者，为广晟控股奋进世界500强发挥重要作用，为粤港澳大湾区培育世界级电子信息产业集群作出新的更大贡献。

计划经济时代的国营工厂

A State Owned Factory in the Planned Economy Era

改革开放时代的代工型企业

An OEM Manufacturer in the Reform and Opening Era

新世纪的民营自主创新型企业

An Independent innovation Private Enterprise in the New Century

产业链融合的高科技上市公司

A High-tech Listed Company in the Integration of LED Industry Chain



1969

公司成立，是一家小型的国营工厂。
NATIONSTAR, a state owned factory, was founded.

1976

LED投产，公司是国内最早生产LED的企业之一。
LED were put into production. NATIONSTAR was one of the first Chinese manufacturers to produce LED.



1981

公司开始与日本三洋公司合作生产LED产品。
NATIONSTAR started cooperation with Sanyo(Japan) to produce LED.

1995

公司荣获国务院颁发的“中华之最”称号，是当时全国最大的光电器件生产和出口基地。
The company won the title of "The Best in China" issued by the State Council, while it was the the largest optoelectronic device production and export base in China.



2000

公司设立研发中心，开始了自主创新的道路。
NATIONSTAR set up the R&D Center and enhanced its focus on innovation and LED technology research.

2002

公司完成转制，成为民营企业。
NATIONSTAR transformed from a state-owned company to a private enterprise.

2010

公司首次发行股票并在深圳证交所上市。
The active development and fruitful achievements made NATIONSTAR succeed in IPO.



2014

广东省属大型国有骨干企业广晟控股集团入资，国星光电成为混合所有制模式的实践者。
GUANGDONG RISING HOLDINGS GROUP CO.,LTD. a big state-owned corporation, invested in NATIONSTAR.

2019

公司荣获国家科技进步一等奖，科研实力备受肯定。
NATIONSTAR won the first prize of National Science and Technology Progress Award.



2022

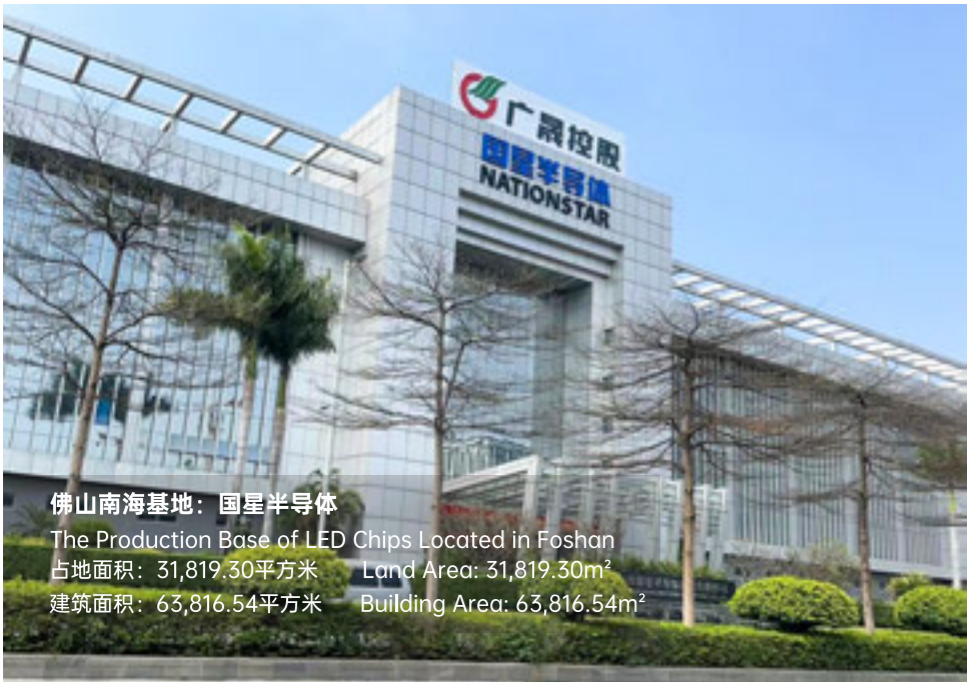
公司入选国务院国资委“科改企业”名单。
The company has been included in the list of "Technology and Innovation Enterprises" by the State-owned Assets Supervision and Administration Commission of the State Council.

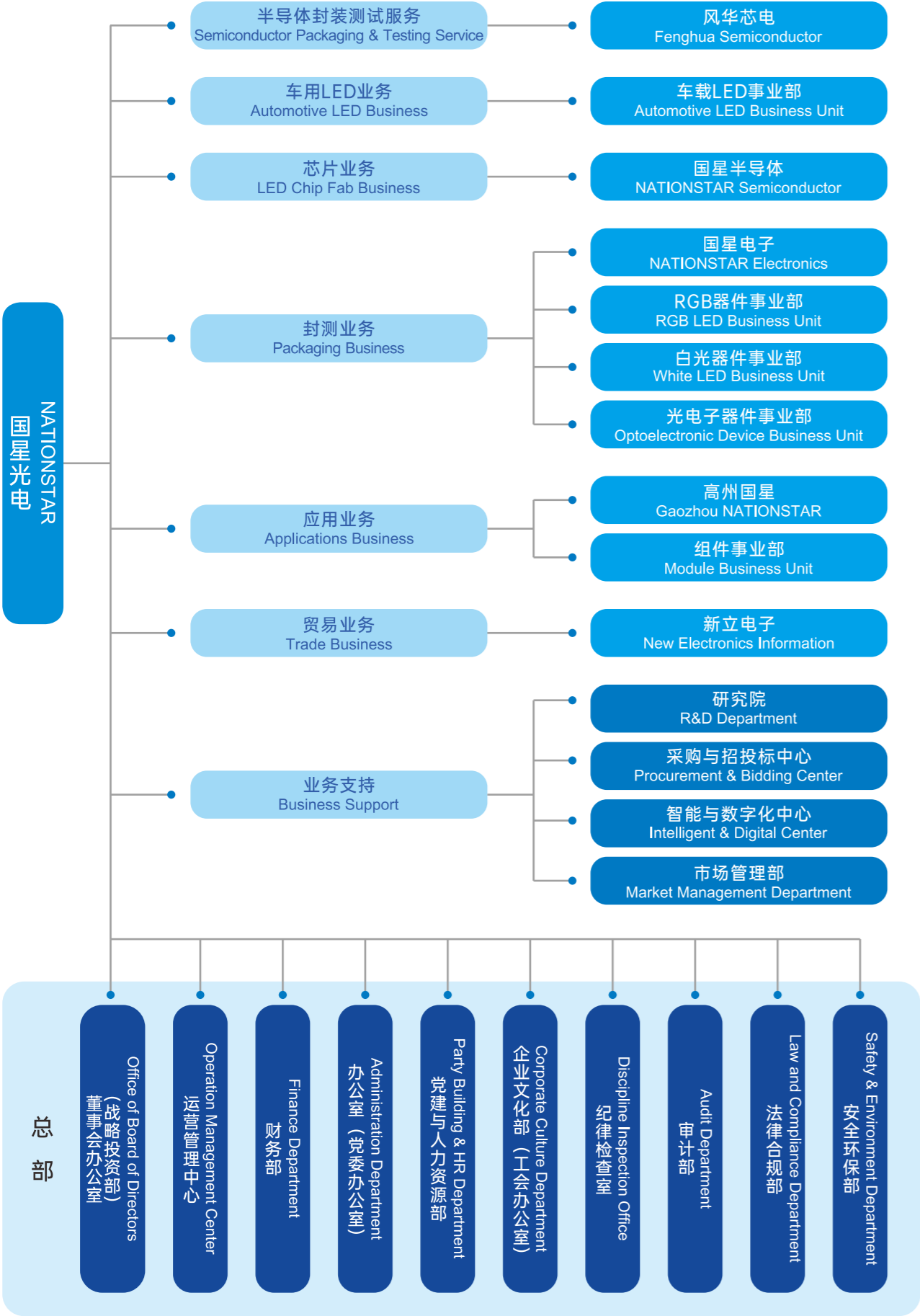
2023

国家知识产权领域最高奖--中国专利金奖。
The Highest Award in China's Intellectual Property Field - China Patent Gold Award.

2024

入选国家第八批制造业单项冠军企业名单。
Selected into the 8th Batch of National Manufacturing Single Champion Enterprises.





2008年

时任中央政治局常委、国务院总理温家宝及省市领导一行莅临国星光电考察。
Wen Jiabao, then the Politburo Standing Committee, Premier of the State Council, visited NATIONSTAR, in 2008.



2011年

时任中央政治局委员、国务院副总理张德江，时任中央政治局委员、广东省委书记汪洋及省市领导一行莅临国星光电考察。
Zhang Dejiang, then member of the political bureau of the CPC central committee and vice premier of the state council; Wang Yang, then member of the political bureau of the CPC central committee and secretary of the CPC Guangdong provincial party committee with other provincial and municipal leaders visited NATIONSTAR in 2011.



2015年

时任中央政治局委员、广东省委书记胡春华及省市领导一行莅临国星光电考察。
Hu Chunhua, then member of the Political Bureau of the CPC Central Committee, Secretary of Guangdong Provincial Party Committee, visited NATIONSTAR, in 2015.



2016年

广东省政协主席王荣莅临国星光电考察。
Wang Rong, the Chairman of Guangdong Provincial Committee of the CPPCC, visited NATIONSTAR, in 2016.



2018年

广东省国资委副主任、党委委员刘小龙及有关领导一行莅临国星光电调研指导。
Liu Xiaolong, the Vice Director of SASAC of Guangdong Province, visited NATIONSTAR, in 2018.



2022年

时任国务院副总理胡春华及省市领导一行莅临国星光电考察。
Hu Chunhua, the Vice-premier visited NATIONSTAR, in 2022.



2022年

时任中央政治局委员、广东省委书记李希一行莅临国星光电调研。
Li Xi, then member of the Central Political Bureau and Secretary of the Guangdong Provincial Party Committee visited NATIONSTAR, in 2022.



2023年

"先进制造业优秀民企走进广晟控股"之国星光电站。
"Outstanding Private Enterprises in Advanced Manufacturing Visit RISING HOLDINGS" - NATIONSTAR Stop.



2024年

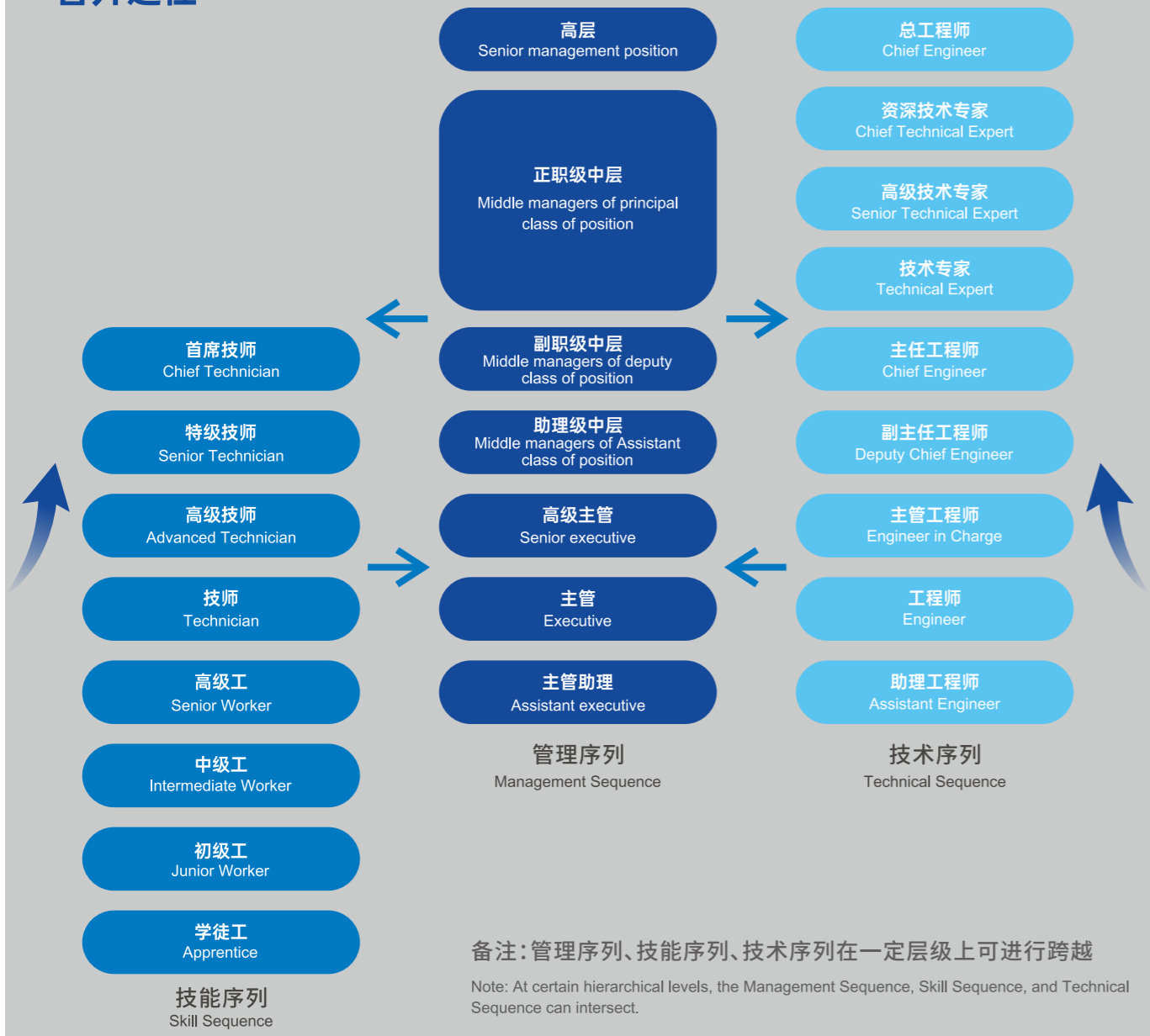
"外交官看中国·广东行"活动走进国星光电。
"Diplomats See China - Guangdong Tour" Visits NATIONSTAR.

- 国家科学技术进步奖一等奖
1st Prize of National Sci-tech Progress Awards
- 国家科学技术进步奖二等奖
2nd Prize of National Sci-tech Progress Awards
- 中国专利金奖
China Patent Award
- 国家制造业单项冠军企业
Single Champion Product of Manufacturing Industry in China
- 国务院国资委“科改示范企业”标杆
A Benchmark in Scientific and Technological Innovation Enterprises of SASAC
- 国家知识产权示范企业
National Manufacturing Individual Champion Enterprises
- 国家知识产权优势企业
National Intellectual Property Superior Enterprise
- 国家高新技术企业
National High-tech Enterprise
- 中国专利奖优秀奖
China Excellence Patent Award
- 广东省科技进步奖一等奖
1st Prize of Guangdong Sci-Tech Progress Awards
- 广东省技术发明一等奖
1st Prize of Guangdong Tech Invention
- 广东省科技进步奖二等奖
2nd Prize of Guangdong Sci-Tech Progress Awards
- 广东专利优秀奖
Guangdong Patent Award
- 广东省名优高新技术产品
Guangdong's Famous High-tech Products
- 广东省制造业单项冠军产品
Single Champion Product of Manufacturing Industry in Guangdong Province





晋升途径



守法经营，依法纳税
Pay taxes lawfully



绿色产品，保护环境
Produce environment-friendly



解决就业，保障和谐
Solve the problem of employment



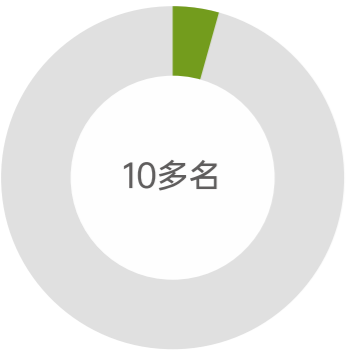
安全生产，提质增效
Ensure safe production



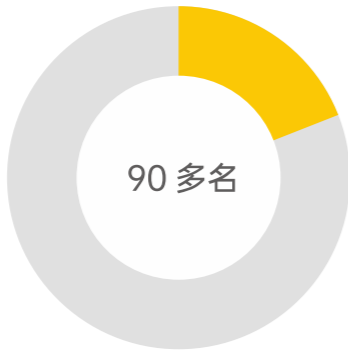
关爱员工，共同发展
Care for employees



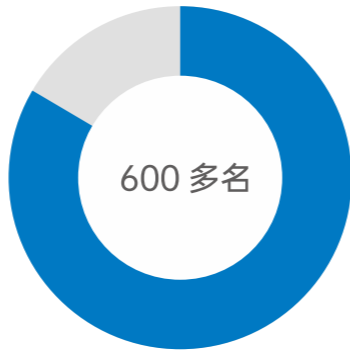
扶贫济困，情暖万家
Help the poor and the week



博士 (后)
PhD Holders



硕士
Master Degree Holders



本科以上技术人员
Engineers and Technicians

- 博士后科研工作站(人力资源和社会保障部批准)
- 国家地方联合工程实验室(国家发展和改革委员会)
- 中国合格评定国家认可委员会(CNAS)实验室
- 广东省半导体微显示企业重点实验室
- 粤港澳智能微纳光电技术联合实验室
- 广东省半导体照明材料及器件工程实验室
- 广东省博士工作站
- 广东省联合培养研究生示范基地
- 广东省健康照明工程技术研究中心
- 广东省光电子工程技术研究开发中心
- 广东省LED外延芯片工程技术研究开发中心
- 广东省先进微电子封装测试工程技术研究开发中心
- 广东省省级企业技术中心 (3家)
- 佛山市国星光电股份有限公司科技特派员工作站

- Post-doctoral Science Research Workstation
- The Local and National United Engineering Laboratory
- CNAS Laboratory Accreditation Certificate
- Guangdong Provincial Key Laboratory of Semiconductor Microdisplay Enterprises
- Guangdong-Hong Kong-Macao Intelligent Micro Mano Optoelectronic Technology Joint Laboratory
- Guangdong Semiconductor Lighting Materials and Devices Engineering Laboratory
- Doctor Workstation of Guangdong Province
- Guangdong Demonstration Base for Joint Training of Postgraduates
- Health Lighting Engineering Technology Research Center of Guangdong Province
- Optoelectronics Research Center of Guangdong Province
- Guangdong LED Epitaxial Chip Engineering Technology Research and Development Center
- Guangdong Advanced Microelectronics Packaging and Testing Engineering Technology Research and Development Center
- Guangdong Enterprise Technology Center
- NATIONSTAR Technology Special Commissioner Workstation



国星光电每年以上亿元资金用于科研开发,公司已申请专利破1100项,其中发明专利超550项,境外专利80多项;已授权专利750多项,其中发明专利授权250多项。并与NIMS、丰田合成、GE公司达成专利合作协议。

With upwards of ¥100 m funnelled into R&D annually, NationStar has over 1,100 patents in place, including over 550 inventions and overseas 80-plus, moreover, 750-odd patents authorized, including 250+ inventions, which have propelled patent cooperation agreements with NIMS, TOYODA GOSEI and General Electric.

► 已申请



专利申请



发明专利



境外专利

► 已授权

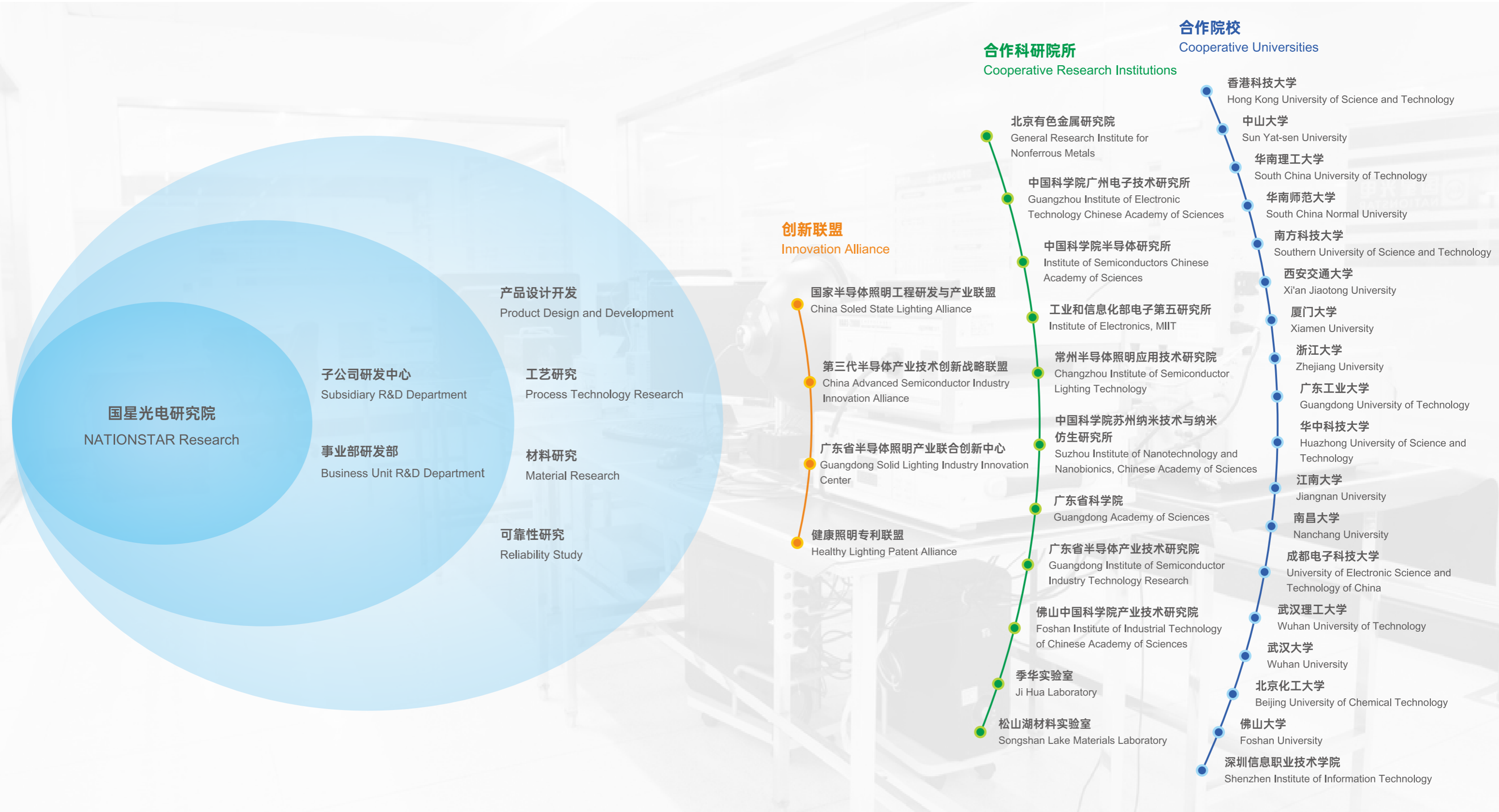


专利

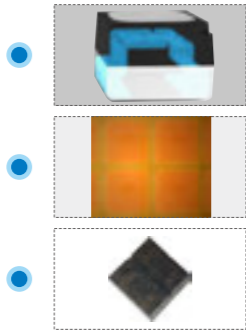


发明专利





器件结构设计技术
Device Structure Design Technology

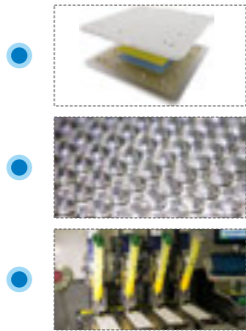


耐水氧穿透封装结构设计
Water/Oxygen-Resistance Structure Design

光谱调控结构设计
Spectrum-Regulating Structure Design

高密度集成封装结构设计
High-Density Integrated Packaging Structure Design

器件封装工艺技术
Device Packaging Technology



微型化薄膜封装技术
Miniaturized Thin-Film Packaging Technology

精密高效模压塑封技术
Precise And Efficient molding Technology

精密点胶技术
Precise Dispensing Technology

微-纳米材料技术
Micro/nano Material Technology

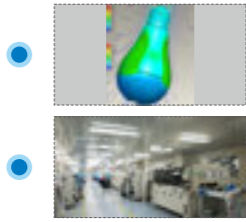


微-纳米材料定向沉降技术
Micro/Nano Material Oriented Sedimentation Technology

微-纳米材料掺杂和分散技术
Micro/Nano Material Doping And Dispersing Technology

微-纳米材料控光技术
Micro/Nano Material Lighting Control Technology

模块化集成技术
Modular Integration Technology



模块化流体仿真与热管理技术
Modularized Fluid Simulation And Thermal Management Technology

高速自动贴片技术
High Speed SMT Technology

可靠性测试及应用技术
Reliability Testing and Applied Technology



AOI及ICT检测技术
AOI & ICT Detection Technology

可靠性测试技术
Reliability Testing Technology

外观工业设计技术
Appearance Industrial Design Technology

显示场景设计技术
Environment Design Technology

国星光电始终贯彻“全员参与，质量第一，持续改进，为顾客提供满意的产品和服务”的质量方针，全面推行国际质量管理体系和完善的标准化流程管理，通过了 ISO9001、ISO14001、IATF16949、ISO45001、ISO/IEC17025、计量体系六大体系认证。公司坚持超高的工艺品质和严格的检测标准，产品通过国内外多项权威认证。

NATIONSTAR has been strictly implementing international quality control system such as ISO9001、ISO14001、IATF16949、ISO45001、ISO/IEC17025 and Certificate of Measurement System, improved process management continuously. Relying on high quality and strictly testing, its products has obtained many international certificates.



LED芯片

LED Chips

公司掌握先进核心技术，拥有可用于照明、显示、背光、紫外等领域的LED外延材料和芯片，并成立全资子公司国星半导体，专门从事LED芯片的开发与制造。

The company has advanced core technology. It has LED epitaxial materials and chips for lighting, display, backlight, UV, etc. The subsidiary of sole investment of NATIONSTAR, NATIONSTAR Semiconductor Company, which specializes in the development and manufacture of LED chips, has been set up.



- 高清显示LED芯片

LED Display Chips
- 消费类电子LED芯片

Consumer Electronics Chips
- 车用大功率LED芯片

Automobile High-power Chips
- Mini/Micro LED芯片

Mini/Micro Chips

LED封装

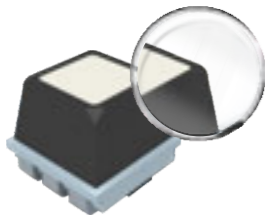
LED Packaging

LED封装为公司主业，其中LED全彩器件市场规模位居国内前列，小间距系列位居全球前列；LED白光器件在高端应用领域市场规模位居国内前列；LED特种器件和LED指示器件也在市场上积累了良好的口碑，并成功进入国际知名品牌供应链。

LED Packaging is the core business of the company. The market scale of the company's LED full-color devices takes the lead in the domestic market and that of the small-spacing products takes the lead in the global market. The market scale of White LED devices in the high-end application field is in the leading position in the domestic market. LED special devices and LED indicators also enjoy a good reputation in the market and they have successfully entered the supply chain of some world-famous brands.

LED显示封装器件

Components for Display



- RS系列

RS Series
- FM系列

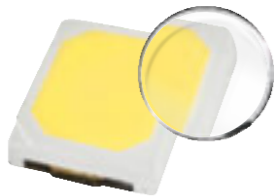
FM Series
- NH系列

NH Series
- MIP系列

MIP Series

LED白光封装器件

Components for Lighting



- 高光效照明

General Lighting LED
- 健康全光谱

Eyelove Health Lighting LED
- 智慧&氛围照明

Vehicle & Atmosphere LED
- 户外&工业照明

Outdoor & Industry LED
- 生物光学器件

Landscape Lighting LED
- 背光器件

Backlight LED
- LAMP

LAMP

CHIP LED封装器件

Components for Indicating



- CHIP侧发光

CHIP Side View
- CHIP指示

CHIP Indicator
- CHIP红外光敏

CHIP Infrared and Photo Transistor
- CHIP车载

CHIP Vehicle
- CHIP感测

LAMP

光电耦合器

Optocoupler



- DIP4/SMD4系列

DIP4/SMD4 Series
- DIP6系列

DIP6 Series
- LSOP4系列

LSOP4 Series
- SOP4系列

SOP4 Series
- SSOP4系列

SSOP4 Series

LED应用

LED Applications

国星组件主要为国际知名家电企业专业定制显示模块、控制板，为电视企业专业开发生产大尺寸LED背光源。国星工程应用主要为植物照明、智能照明及商超工程，提供解决方案。

NATIONSTAR customizes LED display modules and control panels for world-famous household appliance enterprises and it also develops and produces large-sized LED backlight for TV manufacturers. NATIONSTAR engineering application focuses on providing solutions for plant lighting, intelligent lighting and lighting engineering of shopping malls and supermarkets.

LED组件

LED Modules



- Mini LED背光

Mini LED Backlight
- TV背光灯条

Backlight Strip for TV
- MNT背光灯条

Backlight Strip for MNT
- 车载背光灯条

Backlight Strip for Automotive
- 智能显示模块

Intelligent Display Module
- 智能感应模组

Intelligent Induction Module
- 轻薄显示

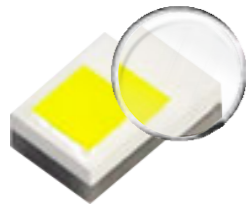
Thin & Light Display
- 氛围灯模组

Atmosphere Lights Module
- 智能控制

Intelligent Control
- 家电用小尺寸背光

Small Size Backlight for Appliances

汽车专用LED Automotive LED



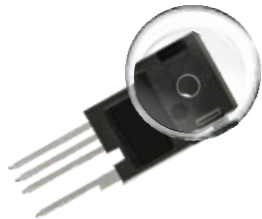
- 车外交互显示器件与模组
Interactive display devices and modules for automotive exterior
- 汽车照明器件
Automotive lighting devices
- 信号灯器件
Automotive signal devices
- 车内屏幕背光器件与模组
Backlight devices and modules for automotive interior
- 汽车内饰灯器件
Automotive interior lighting devices

半导体封测 Semiconductor Packaging and Testing

国星光电积极布局半导体封测领域，在第三代半导体领域拥有SiC功率器件、SiC功率模块、GaN器件三大优势产线系列；同时子公司风华芯电拥有坚实的半导体封测基础和完备的封测产品布局，助力国星光电打造高可靠性及高品质优势的“三代半功率器件封测企业”。

NATIONSTAR Optoelectronics strategically positions itself in the semiconductor packaging and testing sector, excelling in the third-generation semiconductor domain with three prominent production lines: SiC power devices, SiC power modules, and GaN devices. Simultaneously, its subsidiary, Fenghua Semiconductor, boasts a robust foundation and a comprehensive product portfolio in semiconductor packaging and testing, empowering NATIONSTAR Optoelectronics in establishing itself as a "third-generation power semiconductor packaging and testing enterprise" renowned for its high-reliability and top-quality.

第三代半导体 Third Generation Semiconductor



- SiC分立器件
SiC Power Device
- SiC功率模块
SiC Power Module
- GaN-IC
GaN-IC
- GaN电源方案
GaN Power Scheme

集成电路封装测试 IC Packaging and Test



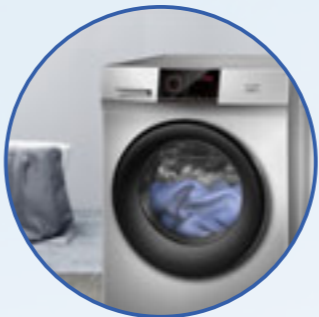
- SOD/SOT系列
SOD/SOT Series
- SOP系列
SOP Series
- DFN/QFN系列
DFN/QFN Series
- TO系列
TO Series



LED高清显示 LED Display

国星LED全彩器件是显示屏的核心发光器件，其具有亮度高、对比度高、可靠性高等特点，可为各类户内外显示屏提供高清、绚丽、卓越的显示效果。随着人们对高清显示的需求越来越高，国星Mini显示LED可应用于大尺寸电视、安防监控等领域。

As the core light-emitting unit of display screen, LED full-color devices by NationStar, feature high brightness, contrast and reliability likewise, enabling high-resolution, vibrant and remarkable display of varied screens, set indoors and outdoors. As much as high-definition effects on the rise, NATIONSTAR delivers mini display LED specially for large-size TV, or closed-circuit television cameras (CCTV).



LED显控模组 LED Display Module

国星光电的显控模块主要应用于空调、洗衣机、微波炉、热水器等家用电器的显示面板。作为配件，国星组件产品跟随家用电器走进千家万户，为消费者带来清晰、明快的使用体验。

Display modules crafted by NATIONSTAR, mostly go to display panels of household electric appliances, like air conditioner, washing machine, microwave oven, water heater and more. As built-in fittings, NATIONSTAR component products, hand in hand with appliances, have entered households, complete with a clear and crisp use experience.



LED健康智能照明 LED Healthy Intelligent Lighting

白光LED是各类高端照明灯具的核心部件。国星健康、智能照明器件具有光色一致性好、色彩还原度高、长寿命高可靠性等特性，可实现低蓝光、全光谱、自适应类自然光调光应用，广泛应用于教育照明、家居照明、商业照明等应用场景。

White LED is a core component in various high-end lighting fixtures. NATIONSTAR's health and smart lighting devices feature consistent light color, high color rendering index, long lifespan, and high reliability. They enable low-blue light, full-spectrum, and adaptive natural-light-like dimming applications, widely used in education, home, and commercial lighting scenarios.



半导体封测 Semiconductor Packaging and Testing

国星光电将集成封装和第三代半导体业务作为培育新质生产力的重点方向。子公司风华芯电拥有20余条国际先进水平的半导体封装测试自动化生产线，可生产包括TO、SOT、SOD、SOP、TSSOP、QFN、DFN、IPM等在内的20多个封装系列。产品广泛应用于消费类数码产品、汽车电子、计算机多媒体、网络通讯、工业控制等领域。

NATIONSTAR is nurturing Integrated Packaging and Wide-Bandgap Semiconductors as new quality productive forces. Fenghua Semiconductor Co. Ltd., affiliate company of NATIONSTAR, can provide production for more than 20 types of packages including TO, SOT, SOD, SOP, TSSOP, QFN/DFN, and IPM. The products are using in consumer electronics, automotive electronics, computer devices, network stations, and industrial control fields.



智能光传感 Intelligent Photoelectric Sensor

国星光电智能光传感产品包括光电二极管、光电晶体管以及发射管，可以实现从UV到近红外的光谱范围的发射与接收功能。产品性能和质量稳定，已经广泛适用于各个市场领域，包括汽车、工业、可穿戴设备、消费以及医疗健康。

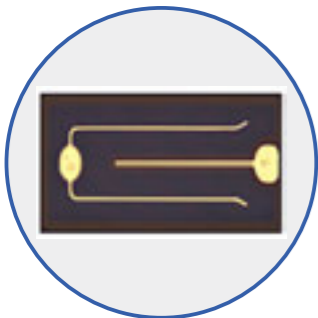
NATIONSTAR intelligent photoelectric sensor products include photodiodes, phototransistors and emission tubes, which can transmit and receive functions in the spectral range from UV to near-infrared. Consistent product performance and quality, which has been widely used in various market sectors, including automotive, industrial, wearables, consumer, and healthcare.



车载LED产品 Automotive LED

国星光电车用系列LED有亮度高、光效高、热阻低、可靠性好的特点，已陆续被应用到长安、上汽、比亚迪、现代、问界、五菱等车型的创新应用。

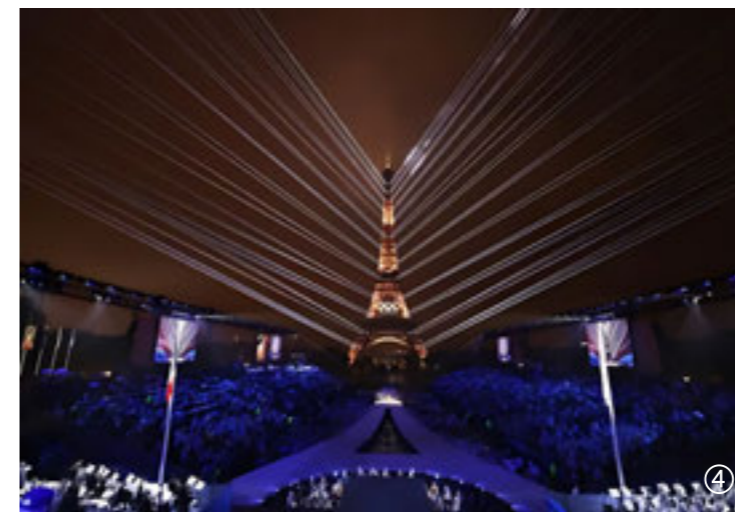
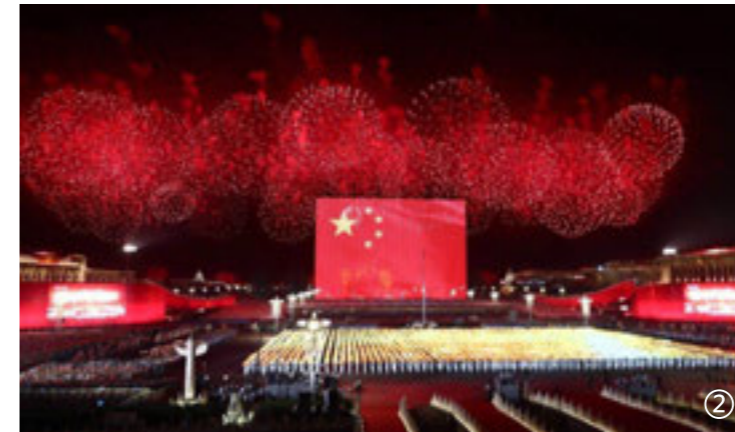
NATIONSTAR's automotive LED products have the characteristics of high luminance, high luminous efficacy, low thermal resistance and high reliability. And Some of them had been used in the creative applications of the electric vehicles, such as IM L6 of SAIC and AVATR 12 of Changan.



GaN基芯片 GaN-based Chips

国星GaN基芯片具有出光效率高，抗静电击穿能力强，发光一致性好，长期可靠性优等特点，随着应用市场的不断开拓，目前已被广泛应于超高清显示、汽车、数码指示、智能穿戴、紫外固化等新兴应用领域。

NATIONSTAR's GaN-based chips offer high light output efficiency, strong resistance to electrostatic breakdown, consistent light emission, and long-term reliability. With the continuous expansion of application markets, they have been widely adopted in emerging fields such as ultra-high-definition displays, automotive, digital signage, smart wearables, and UV curing.



- ①2022北京冬季奥运会开幕式显示屏
LED Display for Opening ceremony of 2022 Beijing Winter Olympic Games
- ②新中国成立70周年群众游行和联欢活动显示屏
LED Display for Procession and Celebration in Honor of CPC 70th Anniversary
- ③2021庆祝中国共产党100周年文艺演出舞台显示屏
Stage Specially LED Display for In Honor Of 2021 CPC's 100th Anniversary Artistic Show
- ④2024年巴黎奥运会开幕式现场显示屏
LED Display for Opening ceremony of 2024 Paris Olympic Games



- ①美国纽约时代广场裸眼3D大屏
3D Curved Monitor Set At Times Square,
New York, USA
- ②2017金砖国家峰会
LED Display for BRICS Summit
- ③2018博鳌亚洲论坛显示屏
LED Display for Boao Forum for Asia
- ④2024年阿黛尔慕尼黑演唱会显示屏
LED Display for Adele Live in Munich 2024



- ①佛山石湾宝峰塔亮化工程
Foshan-Baofeng Tower
- ②太原南站西广场亮化工程
Taiyuan-Shopping Mall
- ③青岛火车北站亮化工程
Qindao-North Railway Station
- ④石家庄地铁照明项目
Shijiazhuang-Subway Station



- ①模块应用场景
Module Applications
- ②新式背光应用场景
Backlight Applications





国星光电将继续实施创新驱动发展战略，斗志昂扬、奋力拼搏，大力发展主导产业，持续强化公司综合竞争力，以高质量发展开创公司发展新局面，致力成为国际全面领先的现代高科技企业，让中国LED闪耀全球。

NATIONSTAR will adhere to the strategy of innovation-driven development and vigorously develop its core business so that the comprehensive competitiveness of the company can be strengthened. The company will open up a new situation with its high-quality development and strive to build itself to be a modern high-tech enterprise leading in the global market. Chinese LED will shine all over the world.