

企业宣传画册



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2022

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

卷首语

Preface



奋力夺取高质量发展新胜利

2022年是“十四五”承上启下的一年，国星光电夯基蓄势、步履坚定；聚焦核心，做强主业；聚焦转型升级，开拓创新；聚焦资本运作，整合资源；聚焦产业链共生，提升服务，积极发挥国有企业在实体经济的领军作用，致力成为我国电子信息产业领军企业。

时代国星，光芒有你。2022年，面对百年未有之大变局，愿我们坚定信心、携手共进，在危机中育新机，于变局中开新局，着力打造具有核心竞争力的科技创新高地，在推动企业高质量发展上闯出新路子，在构建新发展格局中展现新作为，在推动粤港澳大湾区发展中彰显新担当，奋力谱写中国电子信息产业新篇章！

Striving to Win New Victories in High-quality Development

2022 is critical year for the Fourteenth Five-year Plan of National Economic and Social Development. In this year, NATIONSTAR has been focusing on the core and strengthening its main business; focusing on transformation and innovation; focusing on capital operation and resource integration; focusing on industry chain symbiosis and service improvement, actively playing the leading role of state-owned enterprises in the real economy and dedicating to become a leading enterprise in China's electronic information industry.

You are always a shining star in NATIONSTAR. Facing the unprecedented changes in a century, we will move forward together with strong confidence, create new opportunities in the crisis, open up new prospects in the changes, devoting to building a highland of science and technology innovation with core competitiveness. Pioneering a new way in promoting the high-quality development of enterprises, showing new achievements in building new development patterns, demonstrating a key role in the development of Guangdong-Hongkong-Macao Greater Bay Area, NATIONSTAR will spare no effort to write a new chapter in China's electronic information industry.



NATIONSTAR emerged as FOSHAN NATIONSTAR OPTOELECTRONICS CO., LTD. in 1969 with a registered capital of 620 m yuan. Owned by the RISING HOLDINGS Group, a solely state-owned giant under the Guangdong Province, the holding listed company (ticker symbol: 002449), is dedicated to the holistic delivery of LED and related augmented products. The first-ever enterprise with LED as IPO (initial public offerings), is noted as one of the initiators in this industry. With 52 years on, NATIONSTAR has evolved into a main player in electronic information sector of RISING HOLDINGS, standing out as a leader in LED packaging across China, also an influential the world over. It tops the home market in display devices, and WOLEDs across the high-end application field, apart from being a core strategic supplier of component products to globally celebrated household appliance enterprises.

Being a national key high-tech enterprise under China Torch Program over years, NATIONSTAR has been gravitating towards the innovation-driven strategy, in line with sci-tech innovation guidelines by general secretary Xi Jinping, self-reliant sci-tech directives by the Guangdong authority, as well as sector requirements by RISING HOLDINGS. So far, it has put in place a full-fledged sci-tech innovation system in electronic information, in addition to a couple of national sci-research platforms, like postdoctoral sci-research workstation, and state-local joint engineering lab of semiconductor lighting materials and devices. Further, it has gone through 20+ national sci-research projects, spanning National High-tech R&D Program (863 Program), and China Torch Program. On top of that, 80+ provincial and ministerial projects have been completed, highlighting the development and manufacture of LED components, Mini display, LED epitaxial wafer and chip, non-visual light and more. Meanwhile, key core techs are focused on to crack hard nuts in semiconductor. As of now, it reigns supreme across fields like LED ultra-high definition display, new optoelectronics and applications, third-generation power semiconductors and more. A host of its high-tech products were instrumental in the military parade in honor of new China's 70th anniversary, Boao Forum for Asia, Olympic Games, Beijing Daxing International Airport and so much more. Up to now, NATIONSTAR has up to 1,000 items submitted for patents, with over 700 authorized, thereby bagging the first prize of National Sci-Tech Progress Award 2019. It was hailed as a major breakthrough in this sector for provincial enterprises. It won the first prize of Guangdong version 2020, at the Provincial Sci-Tech Innovation Conference.

Looking forward, NATIONSTAR is set to push on national strategies to support leading industry development in national construction. Specifically, it is slated to take LED packaging to a higher level, branching out into intelligent emerging industries in display, wear, modules and more. With in mind the trailblazing role in LED packaging technology innovation around the globe, NATIONSTAR is poised to give impetus to RISING HOLDINGS Group's forthcoming advance into Fortune Global 500, and better still, to make a difference for the world-class electronic information cluster across 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53年的改革发展，国星光电已成为广晟集团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，按照广晟集团科技创新工作要求，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破千项，已授权专利达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，并荣获2020年度广东省科技进步奖一等奖。

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，为广晟集团奋进世界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。

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

新世纪的民营自主创新型企业

An Independent innovation Private Enterprise in the New Century

改革开放时代的代工型企业

An OEM Manufacturer in the Reform and Opening Era

计划经济时代的国营工厂

A State Owned Factory in the Planned Economy Era



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.

2021

公司南庄吉利产业园项目一期封顶，助力打造大湾区世界级电子信息产业集群。
The roof of the project in Nanzhuang Geely Industrial Park has been sealed. It will be an important part of the world-class electronic information industry cluster in the Greater Bay Area.

2022

公司与华为技术有限公司开展全面合作。
The company has carried out comprehensive cooperation with Huawei technologies Co., Ltd.

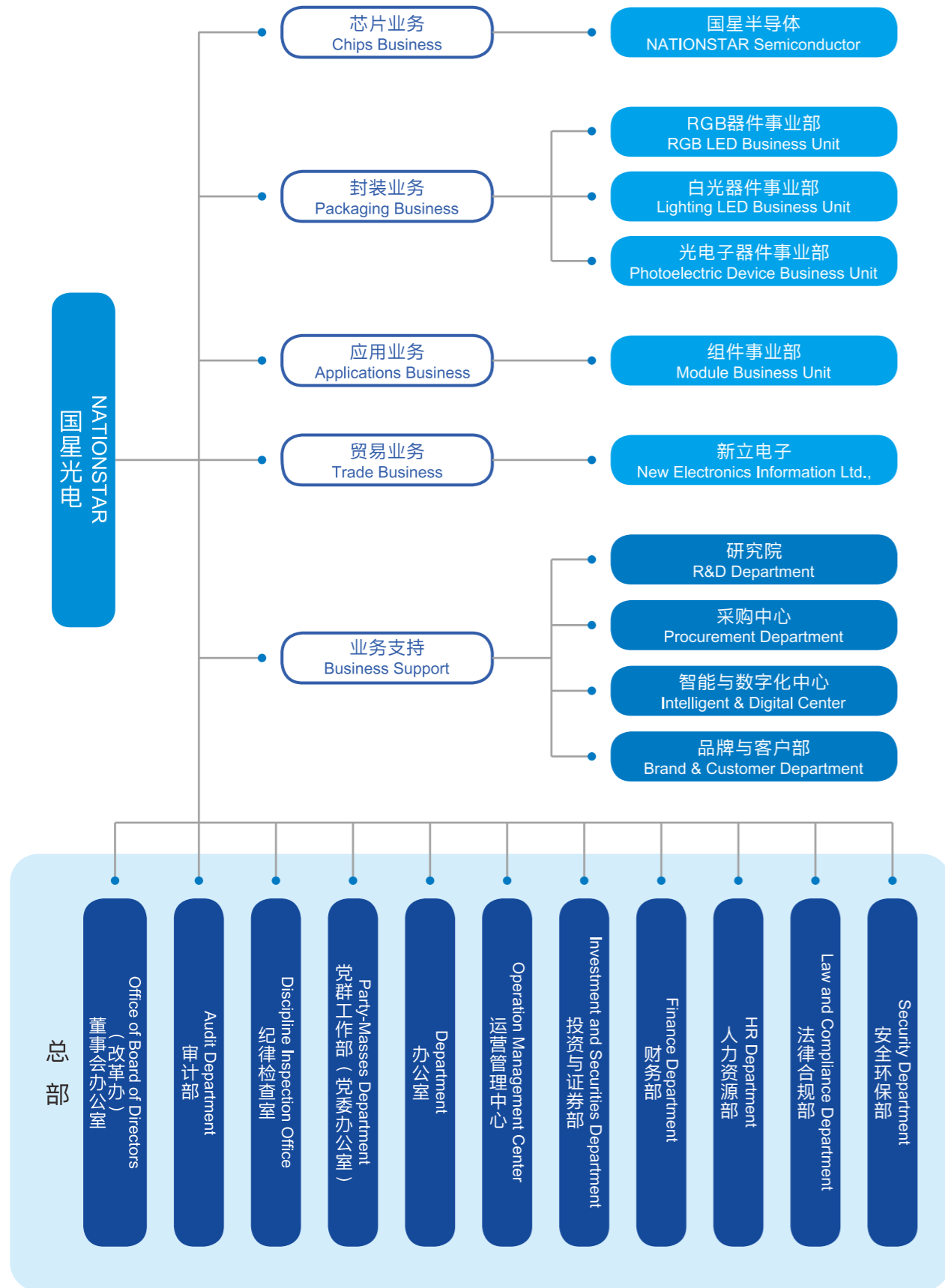


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② | ③

① 佛山禅城基地：国星光电总部
The Production Base of LEDs and LED Lightings Located in Foshan
 占地面积：60,049.93平方米 Land Area: 60,049.93m²
 建筑面积：116,292.52平方米 Building Area: 116,292.52m²

② 佛山禅城基地：南庄吉利产业园项目
Foshan Chancheng Base: Nanzhuang Geely Industrial Park
 占地面积：54,141.06平方米 Land Area: 54,141.06m²
 建筑面积：191,308平方米 Building Area: 191,308m²

③ 佛山南海基地：国星半导体
The Production Base of LED Chips Located in Foshan
 占地面积：31,819.30平方米 Land Area: 31,819.30m²
 建筑面积：63,816.54平方米 Building Area: 63,816.54m²



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 the 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.



2020年

广东省副省长张光军领导一行莅临国星光电检查调研。
Zhang Guangjun, Vice-governor of Guangdong province visited NATIONSTAR, in 2020.



2020年

广东省国资委党委书记、主任李成领导一行莅临国星光电调研指导。
Li Cheng, the secretary of the party committee and the director of the SASAC of Guangdong Province visited NATIONSTAR, in 2020.



2021年

广晟集团党委书记、董事长刘卫东领导一行视察国星光电南庄吉利项目。
Liu Weidong, Party Secretary and Chairman of GUANGDONG RISING HOLDINGS GROUP CO.,LTD. on a Tour to NationStar Nanzhuang Geely Project in 2021.



2022年

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.

● **国家科技进步一等奖**

1st Prize of National Sci-tech Progress Awards



● **国家科技进步二等奖**

2nd Prize of National Sci-tech Progress Awards



● **国家高新技术企业**

National High-tech Enterprise



● **广东省科学进步一等奖**

1st Prize of Guangdong Sci-Tech Progress Awards

● **广东省科学进步二等奖**

2nd Prize of Guangdong Sci-Tech Progress Awards

● **广东省技术发明一等奖(国星半导体)**

1st Prize of Guangdong Tech Invention (NATIONSTAR Semiconductor)



● **广东省名优高新技术产品**

Guangdong's Famous High-tech Products

● **中国专利奖**

China Patent Award

● **国家知识产权示范企业**

National Intellectual Property Demonstration Enterprise

● **国家知识产权优势企业**

National Intellectual Property Superior Enterprise

● **广东专利奖**

Guangdong Patent Award

规划人力资源战略，广纳人才。
Inviting kinds of specialized talented persons

完善培训体系建设，育人以专。
Training with professional knowledge

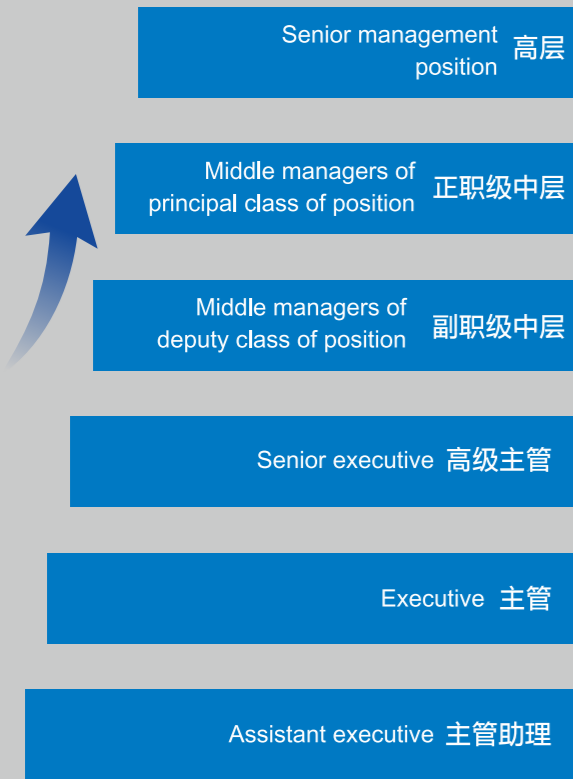
重视人才梯队建设，人尽其用。
Ensure the right person in the right position

创建和谐企业文化，情感留人。
Attract and retain the personnel with culture



管理岗晋升途径

Promotion Path of Management Position



技术岗晋升途径

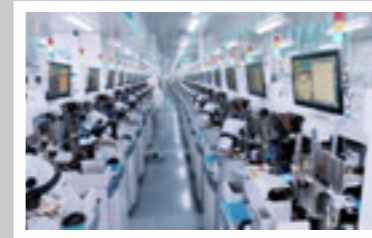
Promotion Path of Technical Position



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



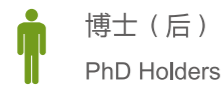
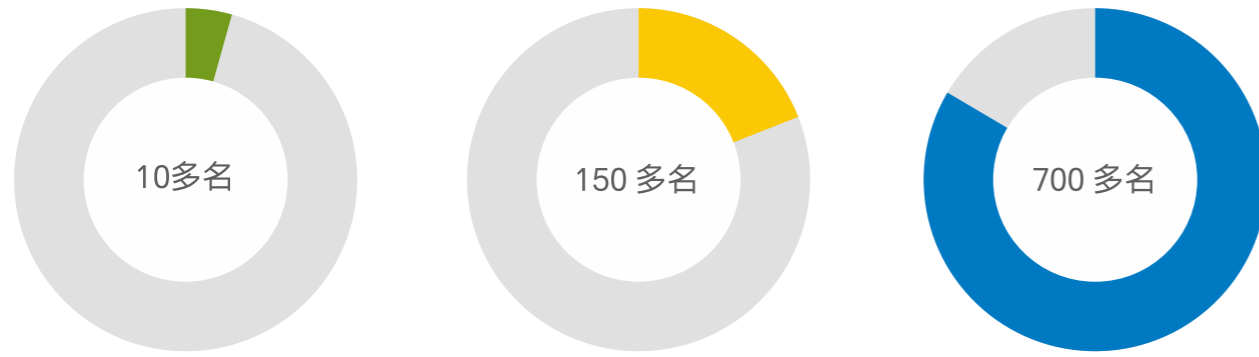
安全生产，提质增效
Ensure safe production



关爱员工，共同发展
Care for employees



扶贫济困，情暖万家
Help the poor and the weak



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
- 粤港澳智能微纳光电技术联合实验室
- 广东省半导体微显示企业重点实验室
- 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
- 广东省企业技术中心
- Post-doctoral Science Research Workstation
- The Local and National United Engineering Laboratory
- CNAS Laboratory Accreditation Certificate
- Guangdong-Hong Kong-Macao Intelligent Micro Mano Optoelectronic Technology Joint Laboratory
- Guangdong Provincial Key Laboratory of Semiconductor Microdisplay Enterprises
- 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 Enterprise Technology Center

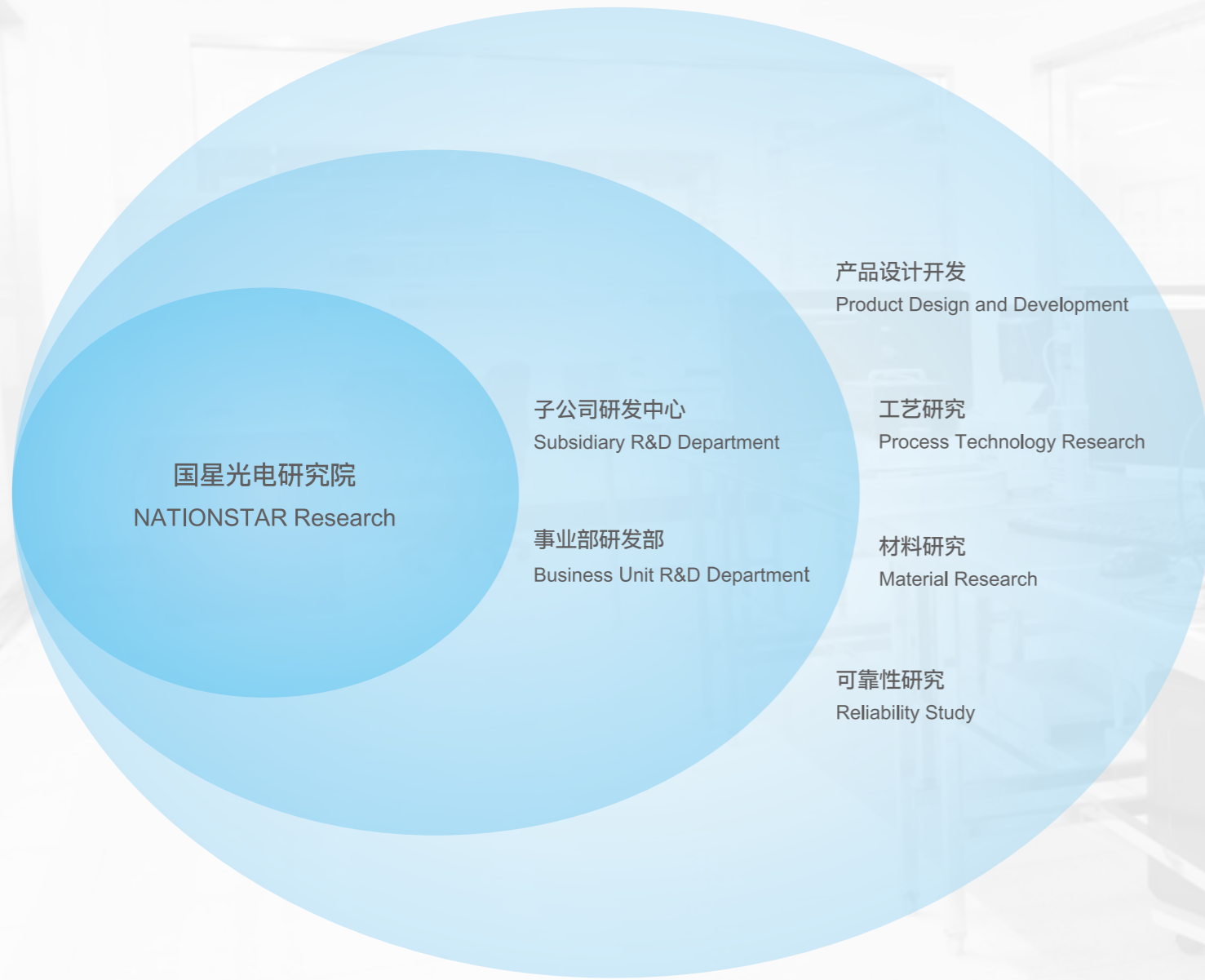
国星光电每年以上亿元资金用于科研开发, 公司已申请专利破1000项, 其中发明专利近400项, 境外专利50多项; 已授权专利700多项, 其中发明专利授权100多项。并与NIMS、丰田合成、GE公司达成专利合作协议。

With upwards of ¥100 m funnelled into R&D annually, NationStar has over 1,000 patents in place, including nearly 400 inventions and overseas 50-plus, moreover, 700-odd patents authorized, including 100+ inventions, which have propelled patent cooperation agreements with NIMS, TOYODA GOSEI and General Electric.

- 国家“863”计划项目及“863”计划引导项目 9项
9 projects and guiding projects of the National 863 Program
- 国家“十二五”科技支撑计划项目 1项
1 project of National Science and Technology Supporting Program of the 12th Five-Year Plan
- 国家级稀土专项项目 1项
1 National Rare Earth Special Project
- 国家科技攻关计划项目 2项
2 projects of National Key Technologies R & D Program of China
- 国家中小企业创新基金项目 1项
1 project of National Innovation Fund for Small and Medium-sized Enterprises
- 广东省科技计划项目 26项
26 projects of Guangdong Provincial Science and Technology Program
- 粤港关键领域重点突破项目 7项
7 projects of Guangdong and Hong Kong Key R & D Projects in Key Areas
- 其他国家省市区级各类项目 117项
117 Other national, provincial, municipal and district-level projects
- 国家重点研发计划项目 3项
3 projects of National Key R & D Plan
- 国家级电子信息产业发展基金项目 3项
3 projects of National Electronic Information Industry Development Fund
- 国家火炬计划项目 5项
5 projects of National Torch Program
- 国家高技术产业升级和结构调整项目 1项
1 National High-tech Industrial Upgrading and Structural Adjustment project
- 国家优化机电和高新技术产品进出口结构资金项目 1项
1 project of National Fund for Optimizing the Import and Export Structure of Electromechanical and High-tech Products
- 广东省重点领域研发计划项目 6项
6 projects of Guangdong Research and Development Program for Key Areas
- 广东省产学研项目 4项
4 projects of Guangdong Industry-University-Research Projects



合作院校
Cooperative Universities



创新联盟
Innovation Alliance

- 国家半导体照明工程研发与产业联盟
China Solid State Lighting Alliance
- 第三代半导体产业技术创新战略联盟
China Advanced Semiconductor Industry Innovation Alliance
- 广东省半导体照明产业联合创新中心
Guangdong Solid Lighting Industry Innovation Center
- 健康照明专利联盟
Healthy Lighting Patent Alliance

合作科研院所
Cooperative Research Institutions

- 北京有色金属研究院
General Research Institute for Nonferrous Metals
- 中国科学院广州电子技术研究所
Guangzhou Institute of Electronic Technology Chinese Academy of Sciences
- 中国科学院半导体研究所
Institute of Semiconductors Chinese Academy of Sciences
- 工业和信息化部电子第五研究所
Institute of Electronics, MIIT
- 常州半导体照明应用技术研究院
Changzhou Institute of Semiconductor Lighting Technology
- 中国科学院苏州纳米技术与纳米仿生研究所
Suzhou Institute of Nanotechnology and Nanobionics, Chinese Academy of Sciences
- 广东省科学院
Guangdong Academy of Sciences
- 广东省半导体产业技术研究院
Guangdong Institute of Semiconductor Industry Technology Research
- 深圳第三代半导体研究院
Shenzhen Third Generation Institute of Semiconductor Research
- 佛山中国科学院产业技术研究院
Foshan Institute of Industrial Technology of Chinese Academy of Sciences

- 香港科技大学
Hong Kong University of Science and Technology
- 中山大学
Sun Yat-sen University
- 华南理工大学
South China University of Technology
- 华南师范大学
South China Normal University
- 南方科技大学
Southern University of Science and Technology
- 西安交通大学
Xi'an Jiaotong University
- 厦门大学
Xiamen University
- 浙江大学
Zhejiang University
- 广东工业大学
Guangdong University of Technology
- 华中科技大学
Huazhong University of Science and Technology
- 江南大学
Jiangnan University
- 南昌大学
Nanchang University
- 成都电子科技大学
University of Electronic Science and Technology of China
- 武汉理工大学
Wuhan University of Technology
- 北京化工大学
Beijing University of Chemical Technology
- 佛山科学技术学院
Foshan University
- 深圳信息职业技术学院
Shenzhen Institute of Information Technology

外部产学研体系
External industry-university-research cooperation

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.



- **Mini/Micro芯片**
Mini/Micro Chips
- **数码芯片**
Digital Chips
- **车用照明芯片**
Automobile Light Chips
- **倒装芯片**
Flip Chips
- **紫光芯片**
Purple Light 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 the LED white-light 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.

RGB器件 Components for Display



- **RS系列**
RS Series
- **FM系列**
FM Series
- **NH系列**
NH Series
- **MINI显示**
Mini Display

白光器件 Components for Lighting



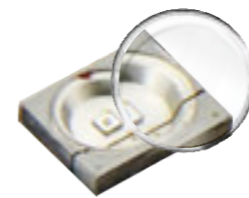
- **高端照明器件**
General Lighting LED
- **Eyelove健康照明器件**
Eyelove Health Lighting LED
- **车用器件**
Vehicle LED
- **景观亮化器件**
Landscape Lighting LED

指示器件 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
- **LAMP**
LAMP

特种照明器件 Non-visual LED



- **植物照明器件**
Plant Lighting
- **紫外器件**
UV LED
- **红外器件**
IR LED

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



- **家电用小尺寸背光**
Small Size Backlight for Appliances
- **电视用大尺寸背光灯条**
Large Size Backlight Strip for TV
- **中大尺寸背光系列**
Medium-Large Size Backlight Series
- **控制板**
Control Panel
- **显示模块**
Display Module
- **Mini背光器件**
Mini Backlighting LED
- **背光器件**
Backlighting LED

第三代半导体 Third-Generation Semiconductor

国星光电也积极在三代半封测领域大力布局，现有SiC功率器件、SiC功率模块、GaN器件三大优势产线系列，国星光电致力于打造高可靠性及高品质优势的“三代半功率器件封测企业”。

Vigorously expanding into three generation and half packaging and testing, NationStar now boasts 3 major cutting-edge production lines, SiC power devices, SiC power modules and GaN devices, making it a "three generation and half power device packaging and testing enterprise" focusing on high reliability and quality.



- **SiC功率器件**
SiC Power Device
- **GaN功率器件**
GaN Power Device
- **SiC功率模块**
SiC Power Module



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).



电视背光 TV Backlight

大尺寸背光源主要为电脑显示器、LED电视等提供背光。国星Mini LED背光源，各项指标性能优异，蓝光一致性好，可搭载Local dimming区域调光，良率高，易组装，具有高亮度、高可靠性、长寿命等优点。

Large-size back-lighting sources are mainly applied in computer screen, LED TV, among others. NationStar Mini LED backlight is characterized by excellent index performance and blue light consistency, ideal for lighting in Local Dimming, owing to its brilliant yield, assembly, brightness, reliability and service life.



家用电器 Household Appliances

国星光电的显示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.



通用照明 General Lighting

国星LED白光器件可为LED灯管、筒灯等照明灯具提供核心发光器件，产品具有亮度高、光效高、寿命长等特点。其中，Eyelove品牌致力于从光谱本质上避免普通光源带来的蓝光损伤，是“胜似阳光”的健康照明器件。

此外，国星智能照明灯具产品具有智能调光、便捷控制、使用领域广泛等特点。

Offering core light-emitting devices for lighting, like LED tube and downlight, NationStar OLED units have the characteristics of amazing brightness, efficiency and service life. Case in point, its Eyelove brand is touted as a health-friendly lighting piece "better than sunlight", thanks to its feat of avoiding blue light damage from ordinary light sources spectrum-wise.

Better still, NationStar intelligent lighting units boast a handful of effects like intelligent dimming, handy control, extensive application and so much more.



电竞设备 ESports Equipment

国星小尺寸背光源及Mini LED背光可为电子设备提供持续稳定、亮度均匀的背光效果，随着电子智能化的不断发展，目前已被广泛应用于手机、平板电脑、电竞显示器、智能手表、电子阅读器电子设备中。

NationStar small-size and Mini LED backlight can both provide sustained, steady and evenly bright performance for electronic equipment, like mobile phone, tablet PC, electronic sports display, smart watch, e-reader, with electronic intelligence ever-evolving.



汽车照明 Automotive Lighting

LED光源具有快响应、高亮度、低能耗及智能化等特性，其正逐步渗透汽车照明市场，并有望成为汽车照明的主流光源之一。

国星LED汽车照明器件具有散热好、亮度高、可靠性高等特点，适用于前照灯、转向灯、阅读灯、刹车灯等车内外照明。

Featuring rapid response, brilliant brightness, low energy consumption and intelligence, LED lighting is well welcomed into auto lighting market, making it one of the lighting staples for autos.

NationStar LED for auto lighting comes with noticeable heat dissipation, brightness and reliability, highly suitable for interior and exterior lighting, like headlight, turn signal, reading lamp and brake lamp.



信号指示 Signal Indication

国星CHIP LED器件具有尺寸小、光效高、寿命长和性能稳定等特点，可做成各种形式的轻薄短小产品，可广泛应用于信号标识、显示面板、仪器仪表等方面的指示。

Packed with small size, high efficiency, long service life and stable performance, NationStar CHIP LED is viable into versatile gadgets, for signal logo, display panel, instrument and meter indication, and so on.



植物照明 Plant Growth Lighting

LED光源的波长丰富，其可通过特定波长的光调节植物开花、结果，甚至可以控制株高和植物的营养成分，对现代农业的发展具有重要意义。

国星LED植物照明器件及灯具产品可满足植物不同的光谱需求，全面促进植物高效健康生长。

Laded with opulent wavelengths, LED lighting is in a position to adjust plant flowering and fruiting through lighting of specific wavelengths, even control plant height and nutrients, which proves instrumental in modern agriculture.

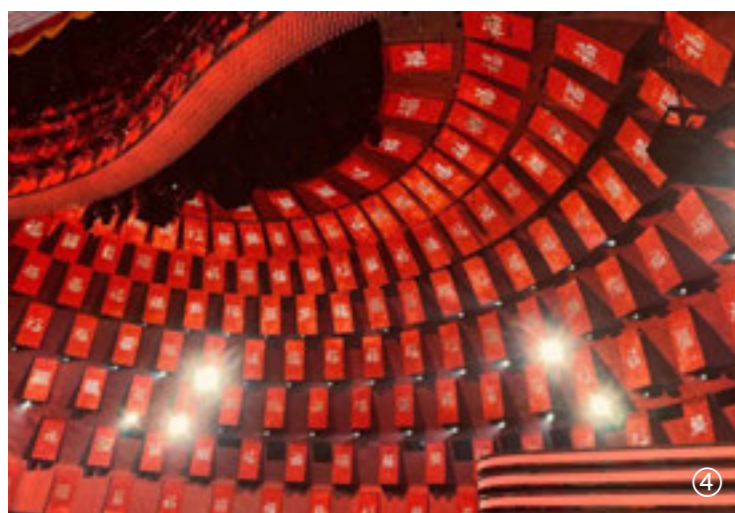
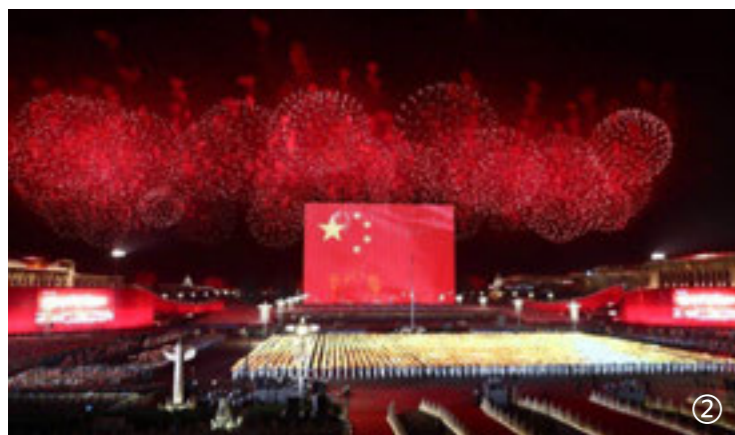
NationStar LED grow lighting units and lamps can all-around boost growth of plants productively, for meeting various spectral needs.



紫外/红外应用 UV/Infrared Application

LED紫外/红外应用是LED应用的新兴市场，国星光电LED紫外器件系列完善，可应用于紫外检测、杀菌消毒、空气净化、工业固态等领域。红外LED广泛应用于安全监控、信号传感、健康医疗、智能家居、工业应用等。

With Led UV / IR application increasingly emerging, NationStar has LED UV device series well equipped, ideal for UV detection, sterilization and disinfection, air purification, industrial solid state and more. Its IR LED does wonders in safety monitoring, signal sensing, health care, smart home, industrial application and beyond.



①2022北京冬季奥运会开幕式显示屏
Screen 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
Screen 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 Screen Specially In Honor Of 2021 CPC's 100th Anniversary Artistic Show

④2021央视春晚裸眼3D屏
3D Screen for CCTV Spring Festival Gala 2021



①广州北京路步行街裸眼3D曲面屏（百城千屏）
3D Curved Monitor Set At Beijing Road Pedestrian Street, Guangzhou

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

④2020央视中秋晚会LED舞台艺术屏
LED Stage Art Screen of CCTV Mid Autumn Festival Gala 2020





- 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.