



佛山市国星光电股份有限公司

FOSHAN NATIONSTAR OPTOELECTRONICS CO.,LTD.

地址:广东省佛山市禅城区华宝南路18号
ADD:No.18 South Huabao Road, Chancheng
District, Foshan, Guangdong, P.R. China
网址 (Website) :www.nationstar.com
邮箱 (E-mail) :nationstar@nationstar.com

LED芯片业务:

电话: 86-757-81807068
传真: 86-757-81807066
邮箱: Chips@nationstar.com

全彩器件业务:

电话: 86-757-83985605
传真: 86-757-82100221
邮箱: RGB@nationstar.com

白光器件业务:

电话: 86-757-82109329
传真: 86-757-82109330
邮箱: led@nationstar.com

指示器件业务:

电话: 86-757-82100219
传真: 86-757-82100220
邮箱: chipled@nationstar.com

组件业务:

电话: 86-757-82100238-8431
传真: 86-757-82100221
邮箱: ModuleSales@nationstar.com

照明灯具产品及亮化工程业务:

电话: 86-757-82100238-8411
传真: 86-757-82960551
邮箱: ledlighting@nationstar.com

海外业务(Overseas Business):

电话(TEL):86-757-82100231
传真(FAX):86-757-82109310
邮箱(MAIL):ledsales@nationstar.com

国星之光 精彩照明
Nationstar, Lighting Up the World
2016

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40年LED行业经验
博士团队 精工品质

40-year LED industry experience,
Doctors team,Excellent quality

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第一篇章 适时而为，峥嵘历程

Chapter One
History of NationStar



Company Profile

Foshan NationStar Optoelectronics Co.,Ltd, specializing in manufacturing LED and LED applied products, is a National High-tech Enterprise and key hi-tech enterprise of the National Torch Plan. Current production bases cover total area of 92,600m², whilst workshops and offices building area 199,000m². Founded in 1969, with advantages on capital, distribution channels, R&D, and management, it has been ranked in the list of the famous LED brands. On 16th July, 2010, it launched its initial public offering and was listed in Shenzhen Stock Exchange.

Innovation promotes development, and technology leads to the future. The company is equipped with the post-doctoral science workstation, the enterprise technology center of Guangdong province, the optoelectronics research center of Guangdong province, and the research office of Prof Su Qiang, academician of China Academy of Science, and the local and national united engineering laboratory of semiconductor lighting materials and devices. In recent years, the company has undertaken various R&D projects supported by the national and local government. In addition, the products of NationStar have been granted with a lot of national and provincial honors.

The company has ISO9001 system certification, ISO14001 system certification, ISO/TS16949 system certification and OHSAS18001 system certification.

公司简介

佛山市国星光电股份有限公司是广东广晟旗下专业从事研发、生产、销售LED及LED应用产品的国家高新技术企业，国家火炬计划重点高新技术企业。公司占地面积9.26万平方米，厂房面积19.9万平方米。公司建于1969年，1976年开始涉足LED封装，是国内最早生产LED的企业之一。经过四十多年的发展，公司借助资金、技术、人才和管理等方面的优势为行业所认可。2014年，广东省属大型国有骨干企业广晟资产经营有限公司入资，国星光电成为混合所有制模式的实践者。

创新推动发展，科技引领未来。公司内部设有博士后科研工作站（国家人力资源和社会保障部批准成立）、苏锵院士工作室、半导体照明材料及器件国家地方联合工程实验室（国家发改委批准筹办）、广东省企业技术中心、广东省光电子工程技术研究开发中心、广东省半导体照明材料及器件工程实验室。现有博士（后）15名，硕士150名，本科及以上技术人员700多名。近年来，公司先后承担了国家“863”计划项目、国家“863”计划引导项目、国家火炬计划项目、国家“十二五”科技支撑计划项目等国家级科研项目20多项，省部级以下项目80多项。公司产品多次获国家级、省级重点产品称号，科技成果多次荣获省市科技进步奖等荣誉。

产品是基础，质量是关键。公司先后通过了ISO9001质量管理体系认证、ISO14001环境管理体系认证、ISO/TS16949质量管理体系认证、OHSAS18001职业健康安全管理体系认证。

国星光电在做大做强LED封装主营业务的同时，兼顾上游LED芯片、下游LED照明产品的发展，建立完善的LED全产业链，实现垂直一体化。未来，国星光电将坚持LED产业链整合，坚持科技兴企、人才领先、管理规范、文化优秀，致力于成为中国大陆全面领先的LED企业，努力推动中国LED产业的发展。

生产基地
Production Base

雄伟壮阔 气势如虹

Majestic and Broad, Blossoming Overwhelmingly



公司总部 佛山华宝厂南区

Location at Huabao Road, Foshan: The Southern Area of The Headquarter

占地面积: 34,600平方米

Land Area: 34,600m²

建筑面积: 93,000平方米

Building Area: 93,000m²

公司总部 佛山华宝厂北区

Location at Huabao Road, Foshan: The Northern Area of The Headquarter

占地面积: 26,000平方米

Land Area: 26,000 m²

建筑面积: 46,000平方米

Building Area: 46,000 m²

佛山市国星半导体技术有限公司

Foshan NationStar Semiconductor Co.,Ltd.

公司控股子公司，外延芯片生产基地

The Production Base of GaN LED Chips for Lighting, Display and Backlight.

占地面积: 32,000平方米

Land Area: 32,000m²

建筑面积: 60,000平方米

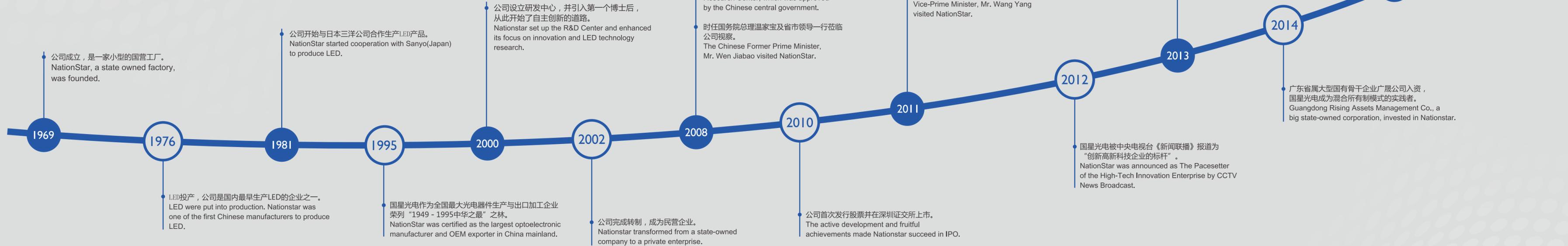
Building Area: 60,000m²

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
(2010至今)

新世纪的民营自主创新型企业
An Independent innovation Private Enterprise in the New Century
(1999-2009)

改革开放时代的代工型企业
An OEM Manufacturer in the Reform and Opening Era
(1981-1998)

计划经济时代的国营工厂
A State Owned Factory in the Planned Economy Era
(1969-1980)





半导体照明技术标准工作组成员单位
Member of Semiconductor Lighting Technology Standard Working Group



广东省高新技术企业
High-tech Enterprises in Guangdong Province



国家火炬计划重点高新技术企业
Major High-tech Enterprise of National Torch Program



全国质量和服务诚信优秀企业
National Integrity Outstanding Enterprises in Quality and Service



广东省名牌产品
Famous Brand Products in Guangdong Province



广东省创新型企业
Innovative Enterprises in Guangdong Province

企业理念 Corporate Values

以真诚地工作增进个人、家庭和社会的福祉，创造公司的永远繁荣

Work with sincere faith to enhance the well-being of individuals, families and society, and to create the ever prosperity of the company

经营理念 Management Concept

用户至上，创新制胜，以人为本，科学管理

The customer is supreme, innovation to success, human-orientation, scientific management

人文精神 Work Principles

Teamwork. Earnest. Responsibility. Pragmatic. Innovation.

求同存异、团结互助的团队精神

从严要求、一丝不苟的认真精神

爱厂爱家、勇担责任的负责精神

脚踏实地、真抓实干的务实精神

尊重科学、敢于实践的创新精神



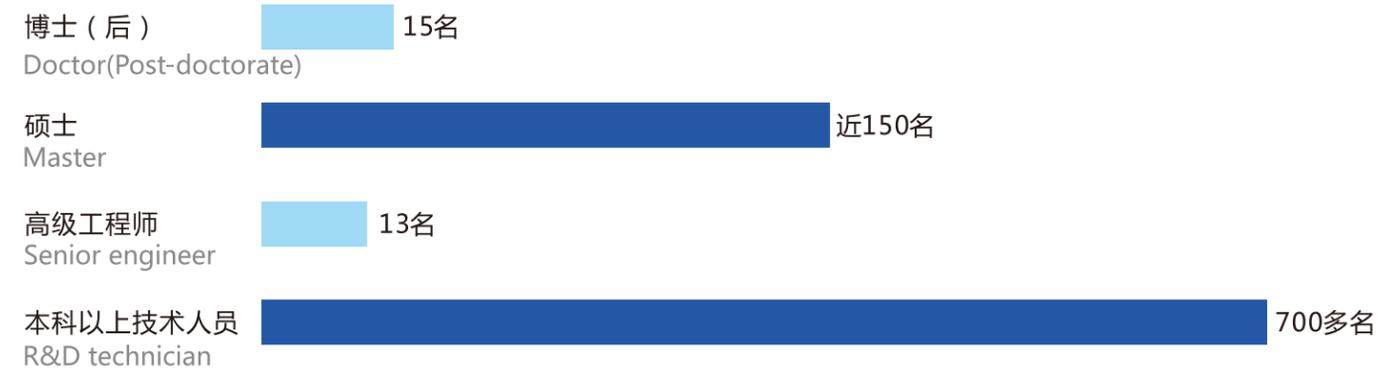
2008年，国星光电博士后科研工作站挂牌成立
Post-Doctoral Science Research Workstation was established in 2008

2014年，国星光电LED光组件检测联合实验室获授权
LED Optical Component Testing Laboratory was authorized in 2014

研发机构 R&D Institution

- | | |
|---|--|
| <ul style="list-style-type: none"> • 博士后科研工作站（国家人力资源和社会保障部批准） • 苏锵院士工作室 • 半导体照明材料及器件国家地方联合工程实验室（发改委批准筹办） • LED光组件检测联合实验室 • 广东省光电子工程技术研究开发中心 • 广东省半导体照明材料及器件工程实验室 • 广东省企业技术中心 | <ul style="list-style-type: none"> • Post-doctoral Science Research Workstation • Research Office of Prof. Su Qiang, academician of China Academy of Science • The Local and National United Engineering Laboratory of Semiconductor Lighting Materials and modules • LED Optical Component Testing Laboratory • Optoelectronics Research Center of Guangdong Province • The Provincial Engineering Laboratory of Semiconductor Lighting Materials and LED |
|---|--|

研发团队 R&D Team



科研成果 R&D Achievement

截至2016年8月，国星光电已申请专利达**356**项，其中发明专利**60**项，国外专利**19**项，已授权专利达**318**项，其中发明专利**40**项。
By August 2016, NationStar had applied for 356 patents, including 60 patents for inventions, 19 overseas patents. There are 318 issued patents, including 40 patents for inventions.



科研项目 Government Funded R&D Project

• 国家“863”计划项目及“863”计划引导项目	9项
• 国家火炬计划项目	5项
• 国家“十二五”科技支撑计划项目	1项
• 国家高技术产业升级和结构调整项目	1项
• 国家“十五”科技攻关项目	2项
• 国家中小企业创新基金项目	1项
• 国家级电子信息产业发展基金项目	3项
• 粤港关键领域重点突破项目	7项
• 广东省重大科技专项	9项
• 省部产学研结合项目	4项
• 其他省市区级各类项目	71项

- 9 projects from the National High Technology Research and Development Program (“863” Program) of China
- 5 project from the National Torch Plan
- 1 project from the Science & Technology Support for National 12th Five Plan
- 1 project from the National Hi-Tech Industry Upgrading Project
- 2 projects from the National Key Technologies R&D Program for 10th Five-Year Plan
- 1 project from Nation-Funded Small&Medium Enterprises Innovation Project
- 3 projects from Nation-Funded E-commerce
- 7 projects from Guangdong-HongKong Key Fields
- 9 projects from Main Science & Technology Projects of Guangdong Province
- 4 project from Academy-Enterprise Cooperation Project Supported by Province & Ministry
- 71 projects from others

质量认证 Quality Certification



质量方针 Quality Policy

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。

All-staff participation, quality first, constant improvement, providing customers with satisfactory products and services.

体系认证 Product Certification



OHSAS18001职业健康安全管理体系证书
OHSAS18001 System Certificate



ISO9001质量管理体系证书
ISO9001 System Certificate



ISO14001环境管理体系证书
ISO14001 System Certificate



ISO-TS16949质量管理体系证书
ISO-TS16949 System Certificate

产品认证 Product Certification

国星光电拥有高素质的专业研发团队，专注于产品与技术的研发创新，产品通过国内外多项权威认证。Relying on our high qualified professional R&D team, concentrating on research and innovation of technology and product, we obtained important certificates which are authorized by labs and organizations from China and abroad.

 <p>欧洲能效证书 Energy-Related Products Certificate</p>	 <p>德国TUV 认证 TUV Certificate</p>	 <p>北美UL认证 UL Certificate</p>	 <p>北美ETL认证 ETL Certificate</p>
 <p>欧洲CE认证 CE Certificate</p>	 <p>德国DVE认证 DVE Certificate</p>	 <p>美国能源之星 ENERGY STAR</p>	 <p>美国DLC认证 DLE Certificate</p>
 <p>国际CB认证 CB Certificate</p>	 <p>澳洲SAA认证 SAA Certificate</p>	 <p>沙特SASO认证 SASO Certificate</p>	 <p>欧洲GS认证 GS Certificate</p>
 <p>韩国KC 认证 KC Certificate</p>	 <p>中国CQC认证 CQC Certificate</p>	 <p>中国节能产品认证证书 China Certificate For Energy Conservation Product</p>	 <p>中国CCC 认证 CCC Certificate</p>

第三篇章 垂直发展，齐驱并进

Chapter Three Full Supply Chain Development

战略目标 Strategic Target

做大做强LED封装主营业务，兼顾上游LED芯片、下游LED照明产品的发展，建立完善的LED全产业链，实现垂直一体化。

Strengthening main business-LED package, developing the upstream LED chip and downstream LED lighting to achieve vertical integration in LED industrial chain.

上游芯片 Upstream-Chips

佛山市国星半导体技术有限公司为国星光电的控股子公司，致力于研发、生产可用于照明、显示、背光的氮化镓LED芯片。公司注册资本6亿元人民币，计划投资25亿元人民币，引进50条MOCVD生产线及相应的芯片生产设备，引进海外具有丰富产业化开发、生产及管理经验的技术管理团队。目前，其外延芯片已实现量产，除部分供应国星光电的封装业务外，还有部分对外销售。

Foshan NationStar Semiconductor Technology Co.,Ltd, a subsidiary of NationStar, with a registered capital of RMB 600 million, is specialized in fabricating GaN LED chips for lighting, display and backlight. The plan is to invest RMB 2.5 billion, 50 MOCVD production lines & equipments. At present, good calibre technical and management team has been on board, and a full product line of GaN LED chips has been in mass production. Part of the products is supplied to NationStar LED packaging division, and the rest is sold to other customers countrywide.



中游封装 Midstream-Encapsulation

国星光电封装产品主要包括SMD LED及其组件、Lamp LED及其组件。其中，SMD LED的产能已达4000KK/月。由RGB器件事业部、白光器件事业部、CHIP LED事业部、组件事业部分别负责各相关业务。

NationStar's Main products in encapsulation are SMD LED & its modules, Lamp LED & its modules; SMD LED production capacity has achieved 4000KK per month.



下游应用 Downstream-Applications

2008年，国星光电成立了照明事业部，其拥有近100位专业研发人员，产品以商业照明为主，户外产品和光源类产品为辅。自2012年底开拓渠道以来，目前已在全国17个省、直辖市成立了运营中心，分销网点突破了1000家，照明工程案例遍布国内外。

NationStar's Lighting division has 100 professional engineers. The main products are commercial lighting, outdoor lighting and decorative Lighting. Its lighting projects are all over the world.

国星光电拥有涵盖LED产业链上、中、下游的产品体系

NationStar has a rounded produce system, including LED chips, LED components and LED lightings

LED芯片

LED Chips

LED芯片 LED Chips	 5050 VLED	 4545 DA	 0808 Blue-green	 1735	 1428	 0921
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LED器件及组件

Components for Displays & Indicating

全彩器件 Components for Display	 B0808-RGBT	 RS-2020	 RS-3528	 RS-2727	 RS-3535	ReStar™ Series 星悦系列	
	 B1010-RGBT	 B2020-RGBA	 B2724-RGBA	 B3528-RGBA	 3528-RGBA		室内应用系列 Indoor application
	 B1515-RGBA	 Z3535-RGBW	 工程版3535-RGBA	 Z2727-RGBA	 Z1921-RGBA		 B1921-RGBA

Small Pixel Pitch RGB
小间距系列

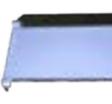
指示器件

Components for Indicating

 CHIP LED 1608	 CHIP LED 2012	 CHIP LED 3215	 TOP LED 3528	 TOP LED 5050	 TOP LED 3020
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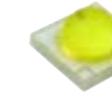
LED组件

LED Modules

 数码管显示模块 Numeric Display Module	 图案显示类模块 Pattern Display Module	 防水高亮小尺寸背光 Small Size with High Brightness Waterproof Backlight	 可液晶定位小尺寸背光 Small Size Led Backlight	 侧入式LightBar ELED Light Bar	 直下式LightBar DLED Light Bar
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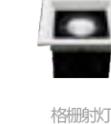
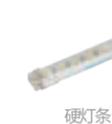
白光器件

Components for Lighting

 P3528	 TP3528	 T3528	 VP3030	 EMC 3030	 2016	
 3014	 4014	 T5050	 5630	 7020	 倒装3535 Flip Chip 3535	 CSP 1010
 陶瓷基板COB COB with Ceramic PCB	 金属基板COB COB with Metal PCB	 LED灯丝 LED Filament	 紫外/红外3535 UV/Infrared 3535	 车用照明2214 2214 for Automotive Lighting	 车用照明3535 3535 for Automotive Lighting	 植物照明P3528 P3528 for Plant Lighting

LED照明应用

LED Applications

LED照明 LED Lightings	 蜡烛灯 LED Candle	 球泡灯 LED Bulb	 灯杯 LED Spotlight	 灯管 LED Tube	 灯管 LED Tube	 天花灯 LED Recessed Downlight
 洗墙天花灯 LED Downlight	 筒灯 LED Downlight	 明装筒灯 LED Downlight	 轨道射灯 LED Track Light	 格栅射灯 LED Downlight	 吸顶灯 LED Ceiling Light	 面板灯 LED Panel Light
 格栅灯 LED Grille Light	 路灯 LED Street Light	 工矿灯 LED Hight Bay Light	 投光灯 LED Flood Light	 柔性灯条 LED Strip	 硬灯条 LED Bar	 光源模块 LED Module

销售业绩 Sales Achievement



国星光电连续十年平均销售收入实现20%以上的增长，2015年销售收入为18.38亿元，同比增长19%。

NationStar achieved 20% annual sales volume growth in the past 10 years. The 2015 sales amount of Nationstar is 1.83 billion RMB, increased by 19% compared with last year.

销售网络 Distribution Network



国星光电业务伙伴遍及全球，通过建立起与业务伙伴真诚沟通的桥梁，实现共赢合作，携手推进LED照明事业的发展。

NationStar's important customers are located in many countries and areas. With sincere communication and cooperation, win-win partnership between NationStar and customers will push forward the LED industry and technology.

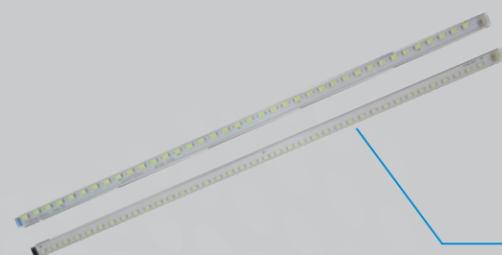


合作伙伴 Major Customers





LED电视背光
Backlight for LED TV



笔记本背光
Backlight for Laptop



手机背光
Backlight for Cellphone



空调显示面板
The Display Panel on Air Conditioner



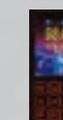
热水器显示面板
The Display Panel on Water Heater



洗衣机显示面板
The Display Panel on Washing Machine



微波炉显示面板
The Display Panel on Microwave Oven



显示屏器件应用案例
Components for Display Applications



2015年天安门抗战纪念70周年大阅兵显示屏
LED display for 2015 large-scale military parade for 70th anniversary of anti-Japanese war in Tian'anmen square



中国人寿会议室高清显示屏
LED Display in China Life Insurance's Meeting Room



韩国天门显示屏
LED Display for Pope's Trip in Korea



西安秦汉唐国际文化商业广场天幕显示屏
LED Display in Xi'an Qin Han Tang International Cultural and Commercial Plaza Atrium

2014巴西世界杯开幕式显示屏
LED Display for 2014 World Cup Opening Ceremony in Brazil



达沃斯论坛显示屏
LED Display for 2014 Davos World Economic Forum



休斯敦火箭队丰田中心显示屏
LED Display in Toyota Center of the Houston Rockets



广州国际车展显示屏
LED Display for Guangzhou International Auto Show



湖北省高速公路应急指挥中心显示屏
LED Display in Hubei Provincial Expressway Emergency Command Center

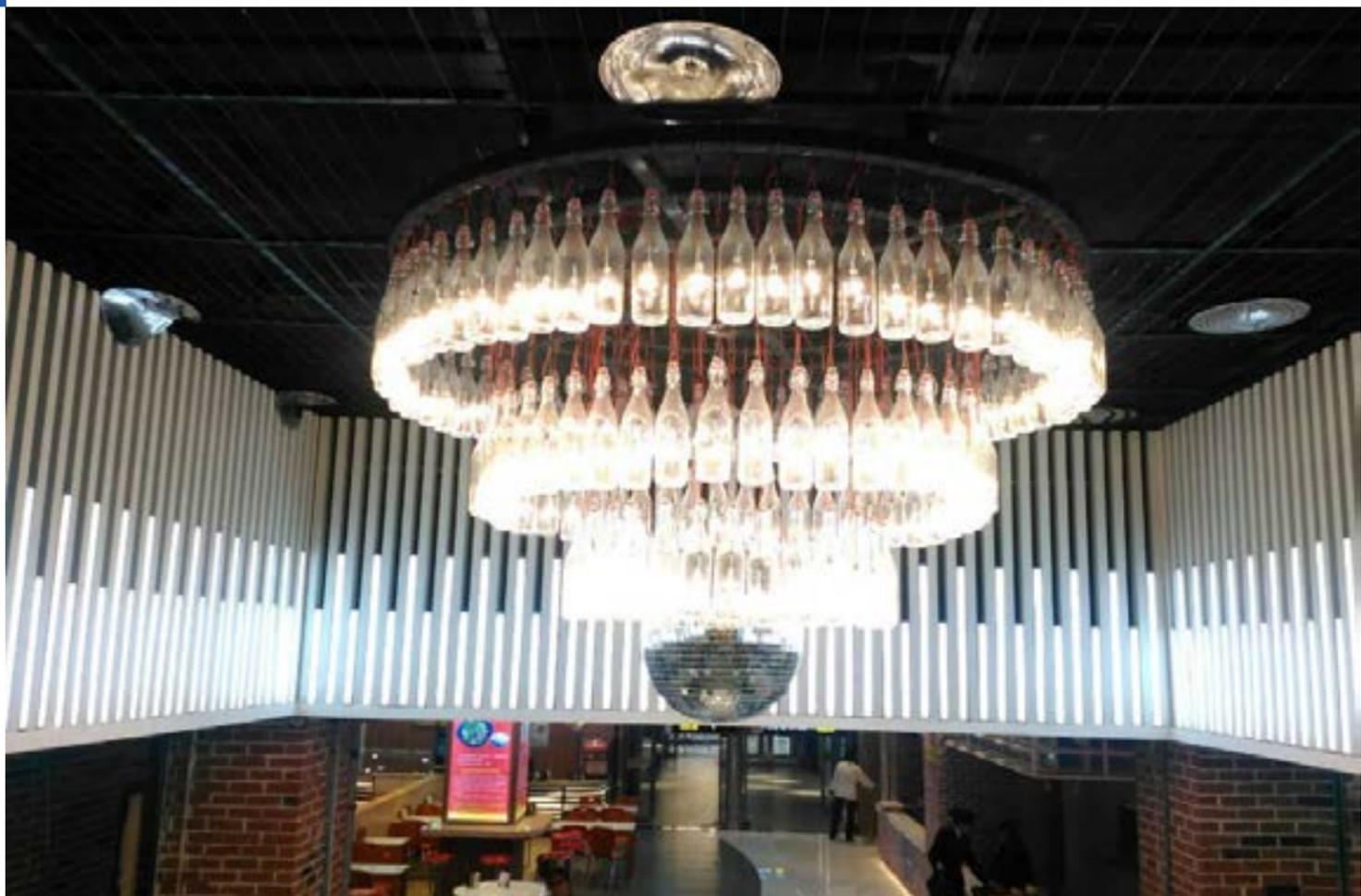


泰国环球小姐大赛舞台背景显示屏
LED Display for Miss Universe Thailand



应用案例
Application Cases

照明产品应用案例
Commercial Lighting Applications



河南 - 德化路步行街
Henan - Pedestrian Street



成都 - 仁和春天百货
Chengdu - Shopping Mall

广东 - 宾度服饰专卖店
Guangdong - J.Benato



成都 - 仁和春天百货
Chengdu - Shopping Mall



青岛 - 火车站
Qindao - North Railway Station



山东 - 舜和国际酒店
Shandong - Shunhe Hotel



四川 - 泸州S.Life生活馆
Luzhou - Life Hall

第四篇章 矢志不渝，勇往直前

Chapter Four
Fighting for a Promising Future

国星光电将继续坚持科技兴企、创新发展，保持人才领先、管理规范、文化优秀，致力于成为中国大陆地区全面领先的LED企业，努力推动中国LED产业的发展。

NationStar will adhere to the spirit of innovation and technology, enhance its competitive ability through professional human resource, advanced management and excellent corporate culture. She will also devote herself to be the top LED enterprise in China and make her attractive in worldwide.

