



REESTAR

2018

Redefine the global high-end full color SMD LEDs

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REESTAR

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Redefine the global high-end full color SMD LEDs

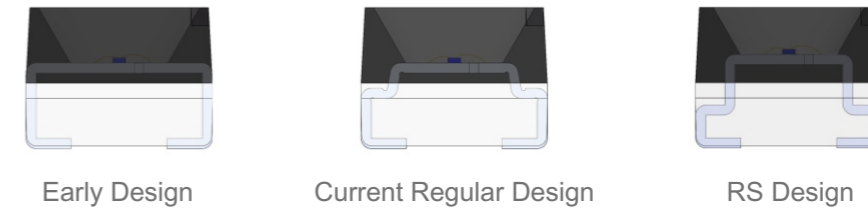


Redefine the global high-end full color SMD LEDs

To provide high quality, high standard and customized products for high-end display application to global customers.

PRODUCT ADVANTAGES

STRUCTURE Low pins high frame patent technique^{※1}



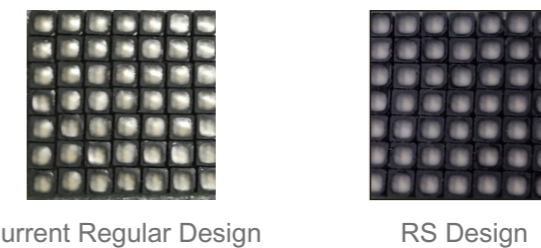
- Advantages:**
- High frame: 0.7mm (Leading in the industry)
 - Low pins: Easy for potting
 - Triple waterproof: Reliability improvement

CONTRAST Full black encapsulation patent technique^{※2}



- Advantages:**
- Blackness on all sides: white PPA exposure solution
 - Blackness on surface: Contrast increase
 - Square frame with four corners in arc shape: Wider view angel and better consistency

MATTE Secondary spray



- Advantages:**
- It makes epoxy resin on LED surface become smoothness which solves display viewing in wide angle (>160°)
 - Matte encapsulation can solve picture distortion problem which is caused by light reflection

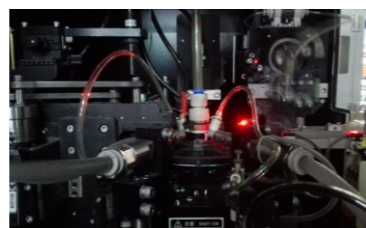
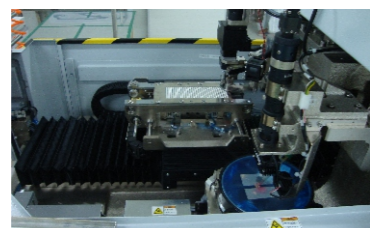
※1 : Patent no.: ZL201110365452.6 ※2 : Patent no.: ZL201220685543.8

MANUFACTURE ADVANTAGES

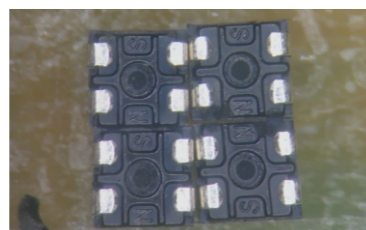
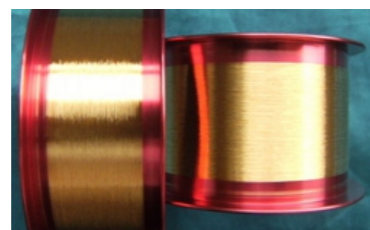
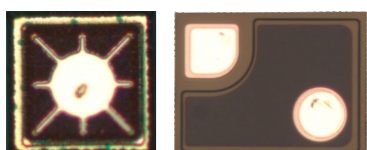
R&D CENTER > 80 engineers, > 300 authorized patents



EQUIPMENT First-class level in the world



MATERIAL Imported materials, Better quality



Famous die suppliers all over the world

99.99% pure gold wire

Pure copper leadframe

QUALITY Automotive quality management IATF16949
Automotive grade discrete semiconductors (AEC-Q101)
SMT failure rate<10PPM



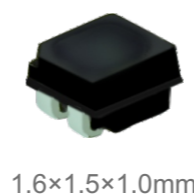
WORKSHOP Ten thousand level clean workshop

RENTAL DISPLAY PRODUCTS

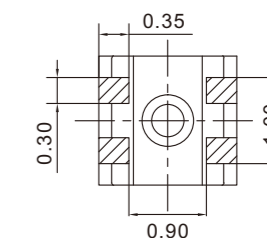
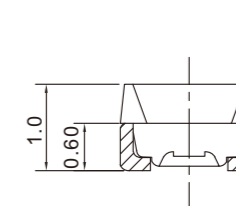
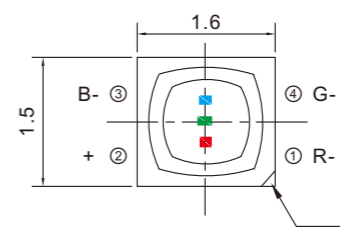
High brightness, High contrast, All black matte encapsulation, Good consistency in low grey scale, Effective view angle is up to 160°.

RS-1515MBAM

Type: Indoor
Strength: Greatly improve color reduction by introducing wide color gamut standard products
Application field: High-end rental displays for auto show, product launch conference etc., broadcasting industry, cinema and other professional fields



1.6×1.5×1.0mm

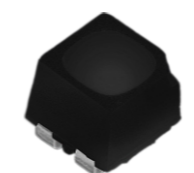


Unit: mm

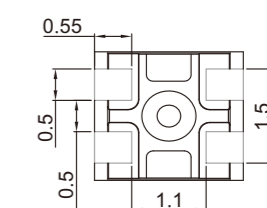
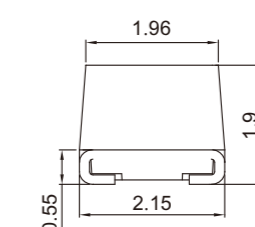
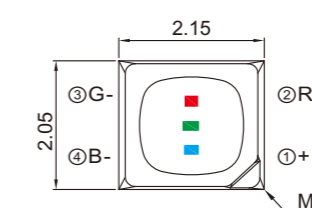
Color	IF(mA) TEST	λD(nm) Typ.	IV(mcd) Typ.	VF(V) Typ.	View angle de
●	8	622	55	2.0	110
●	5	531	170	2.8	110
●	3	466	22	2.8	110

RS-1921MBAR

Type: Outdoor
Strength: Whole display brightness≥4500nit
Application field: High-end rental displays for outdoor stage, stadium and fine pixel pitch displays in airport, hotel, etc



2.15×2.05×1.9mm



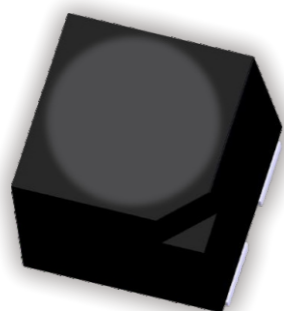
Unit: mm

Color	IF(mA) TEST	λD(nm) Typ.	IV(mcd) Typ.	VF(V) Typ.	View angle de
●	15	622	330	2.0	110
●	8	525	480	3.0	110
●	5	471	50	3.0	110

First appearance in the world

RS1415

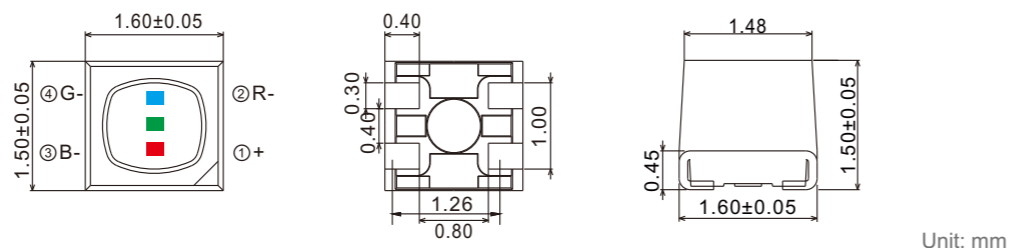
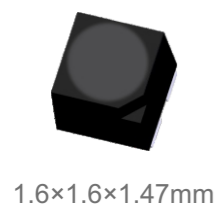
Smallest dimension outdoor RGB LED in the world



P3 Outdoor high definition application

RS-1415MBAP NEW

Type: Outdoor
 Strength: High definition for outdoor P2 application
 Application field: Fine pitch pixel application for advertisement, glass display, lamp post display, station display, etc



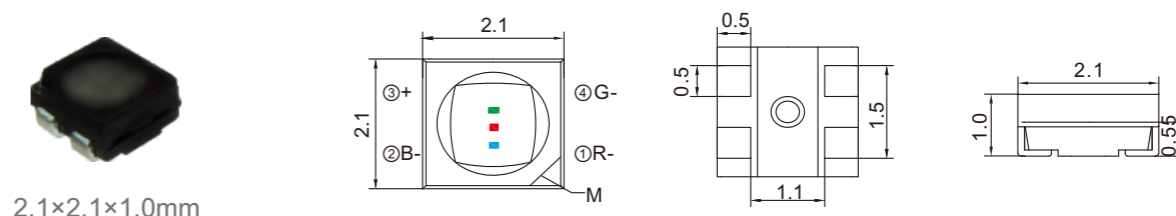
Color	IF(mA) TEST	λD(nm) Typ.	IV(mcd) Typ.	VF(V) Typ.	View angle de
Red	15	622	274	2.0	110
Green	8	522	368	3.0	110
Blue	5	472	49	3.0	110

FIXED DISPLAY PRODUCTS

High brightness, Long lifespan, Long warranty period.

RS-2020MBAM

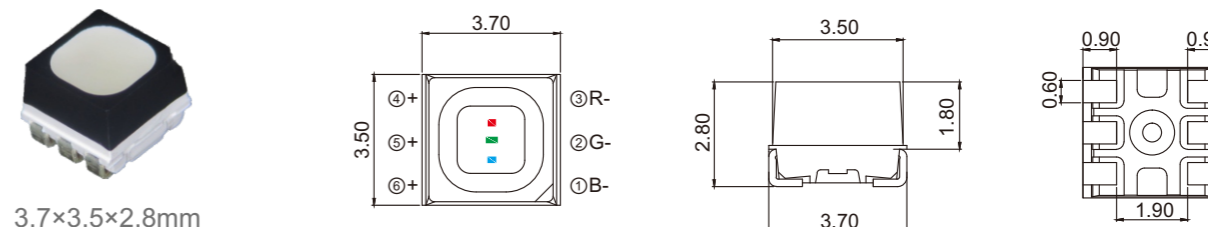
Type: Indoor
 Strength: Whole display brightness can achieve 2000nit
 Application field: High brightness required places, such as stadium, station, product launch conference, showcase, etc



Color	IF(mA) TEST	λD(nm) Typ.	IV(mcd) Typ.	VF(V) Typ.	View angle de
Red	8	620	80	2.0	110
Green	5	520	200	2.6	110
Blue	3	470	28	2.8	110

RS-3535MWAM

Type: Outdoor
 Strength: Whole display brightness > 5000nit
 Application field: Stadium, airport, station, etc



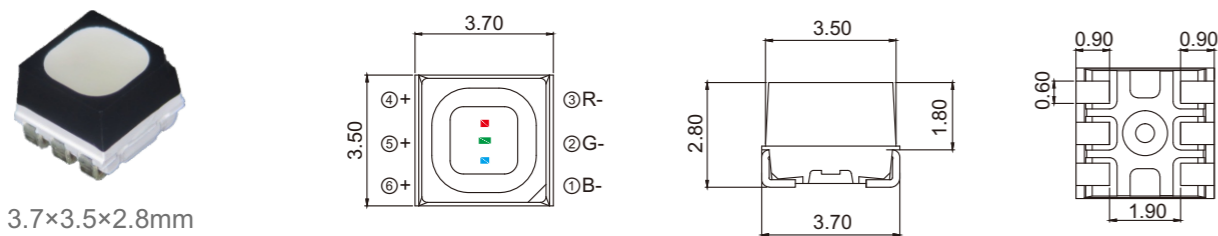
Color	IF(mA) TEST	λD(nm) Typ.	IV(mcd) Typ.	VF(V) Typ.	View angle de
Red	15	622	490	2.0	110
Green	8	525	800	3.0	110
Blue	5	470	115	3.0	110

FIXED DISPLAY PRODUCTS

High brightness, Long lifespan, Long warranty period.

RS-3535MWAP

Type: Outdoor
 Strength: Cree die, RS encapsulation, Whole display brightness > 5000nit
 Application field: Landmarks project, government project, etc

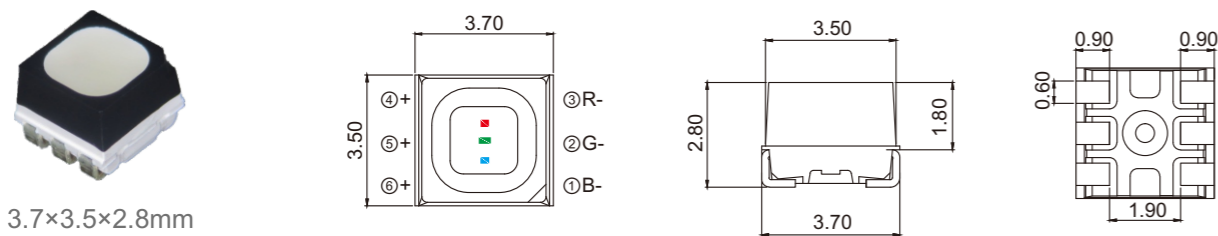


Unit: mm

Color	IF(mA) TEST	λD(nm) Typ.	IV(mcd) Typ.	VF(V) Typ.	View angle de
Red	20	622	700	2.0	110
Green	20	530	1600	3.0	110
Blue	20	470	400	3.0	110

RS-3535MWAR

Type: Outdoor
 Strength: Whole display brightness > 7000nit, Low power consumption
 Application field: Long-distance areas such as outdoor advertisement, building lighting project, sky screen, etc



Unit: mm

Color	IF(mA) TEST	λD(nm) Typ.	IV(mcd) Typ.	VF(V) Typ.	View angle de
Red	20	622	850	2.0	110
Green	20	527	2200	3.0	110
Blue	20	470	500	3.0	110

APPLICATION CASES



Davos Forum (RS1515)



Rio Olympic Games (RS3535)



BRICS Business Forum 2017 (RS1515)



Tian'anmen Squire Military Parade Live Broadcast 2015 (RS3535)



Moscow International Airport (RS3535)

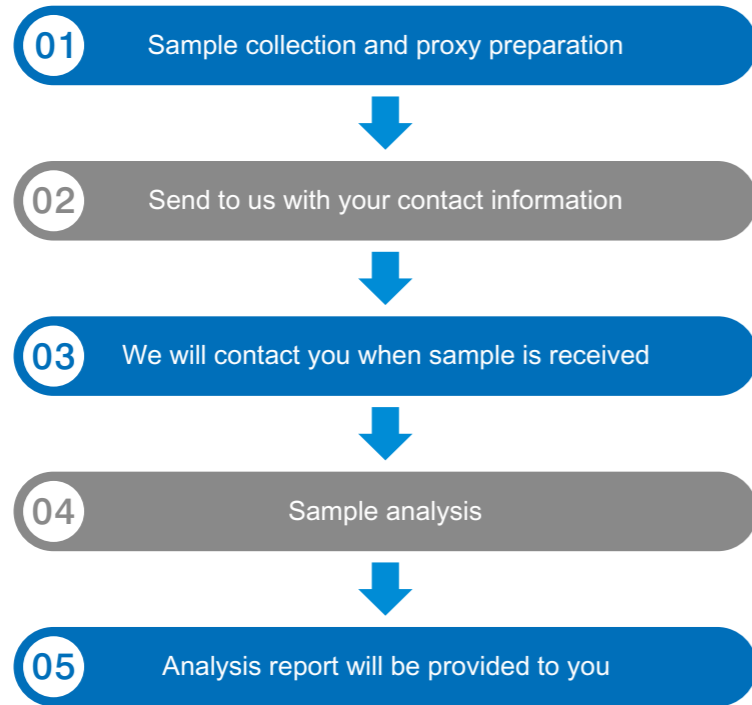


Malaysia Largest Outdoor Display (RS3535)

PRODUCT IDENTIFICATION

We adhere to fight against counterfeit NATIONSTAR products in the market and ensure our customers have a pleasure experience by using our products.

NATIONSTAR RGB R&D center guarantees that sample verification is free of charge and the analysis report will be sent to you within 7 working days after receiving your sample.



Sample testing proxy

样品检测委托书	
委托单位	委托日期
联系人	联系方式
联系地址	
样品型号	样品数量
样品供应商	
检测内容	
检测目的	
报告形式: <input type="checkbox"/> 数据报告 <input type="checkbox"/> 文字报告	
检测报告	
交付方式: <input type="checkbox"/> 自取 <input type="checkbox"/> 邮寄 <input type="checkbox"/> E-mail	
委托单位 签章	
年 月 日	

Testing report

LED 器件检验报告			
样品	委托人	委托时间	2017-12-04
数量	委托要求	鉴定送样样品(一供)是否属于国星正品灯珠。	
型号	2020	鉴定人员	张永芳
检测	日期	鉴定日期	2017-12-11
项目	■外观	温度(°C)	湿度(%)
		22°C	55%RH
检测	外观		
内容			
结论	经鉴定, 送检样品不为国星光电产品。 受检样品 不为国星光电产品		
备注	1. 国星光电所有产品均印有国星光电标识。 2. 国星光电所有产品均印有国星光电标识。 3. 国星光电所有产品均印有国星光电标识。 4. 国星光电所有产品均印有国星光电标识。 5. 国星光电所有产品均印有国星光电标识。		
制定	张永芳	审核	刘国清

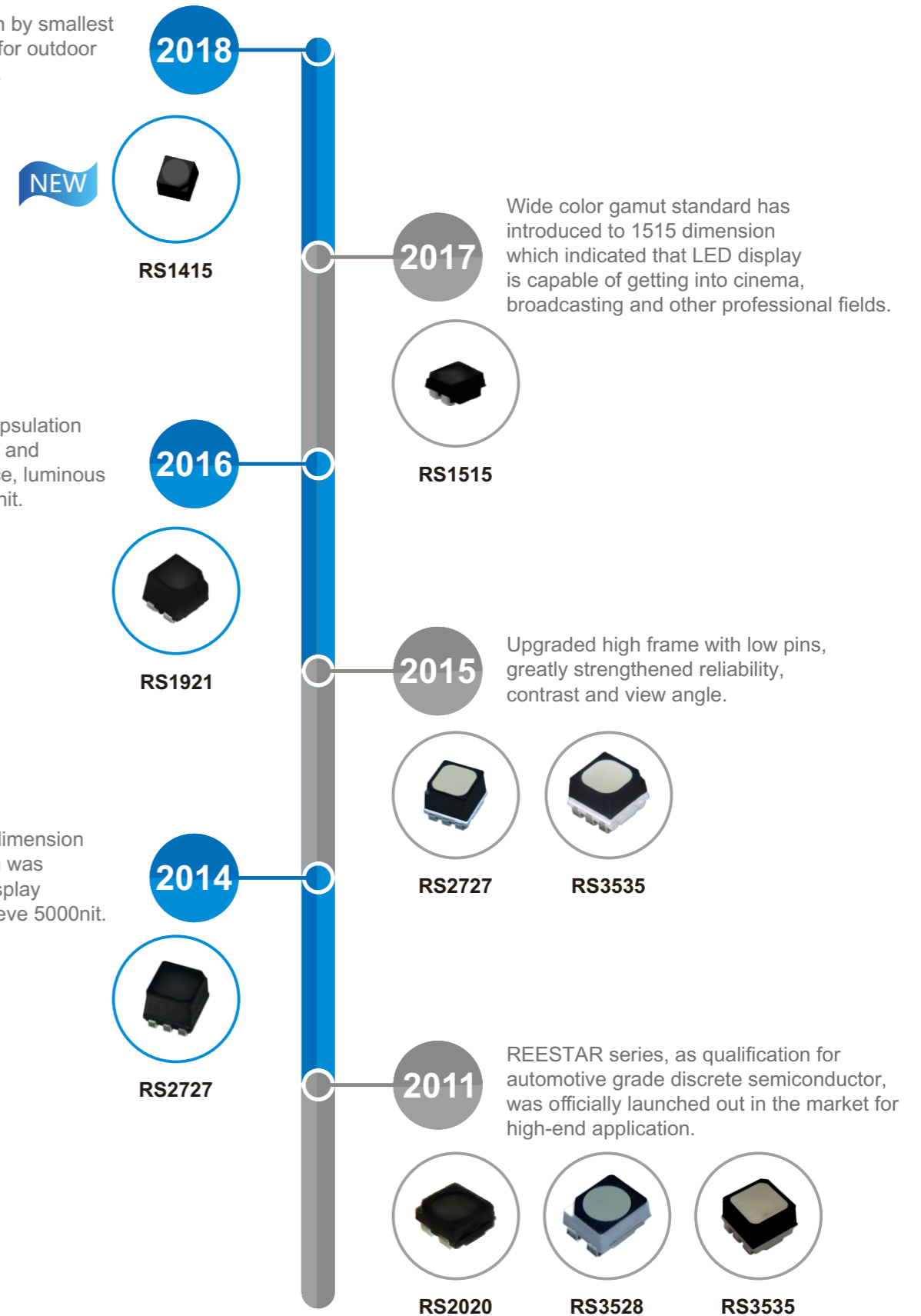
Tel : 0086-757-82100238-8188
E-mail : RGByanfa@nationstar.com

PRODUCT DEVELOPMENT

New design by smallest dimension for outdoor application.

1921 full black encapsulation with high brightness and contrast performance, luminous intensity up to 4500nit.

First outdoor 2727 dimension with <P6 application was launched. Whole display brightness can achieve 5000nit.





NATIONSTAR is a high-tech enterprise with integrated supply-chain capability in developing and manufacturing LED components and LED application products. It is one of the largest LED manufacturers in China and the first IPO in LED industry. It ranks TOP 10 of Packaged LEDs 2017 Revenue in the world (IHS Markit) .

NATIONSTAR has leading LED packaging technology and devices, including high-speed die bonding, wire bonding, phosphor coating, precise color testing and bin-sorting machines, and etc. Its RGB LED leads the global industry.

NATIONSTAR achieved averagely 23% annual revenue growth in the last ten years. In 2016, its sales revenue is 356 million US dollars, increased by 31%. The first 3 quarters of 2017, its sales revenue reached 390 million US dollars, increased by 54.10%.

NATIONSTAR will adhere to the spirit of innovation and technology, enhance its competitive ability through senior human resource, advanced management and excellent corporate culture to become a globally leading enterprise in LED industry.

