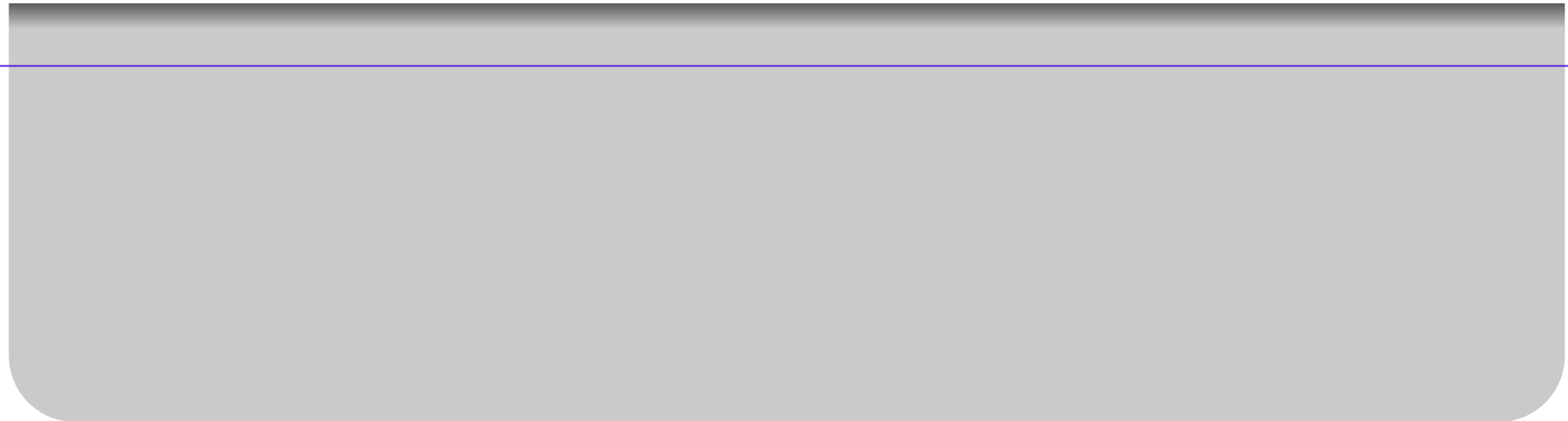
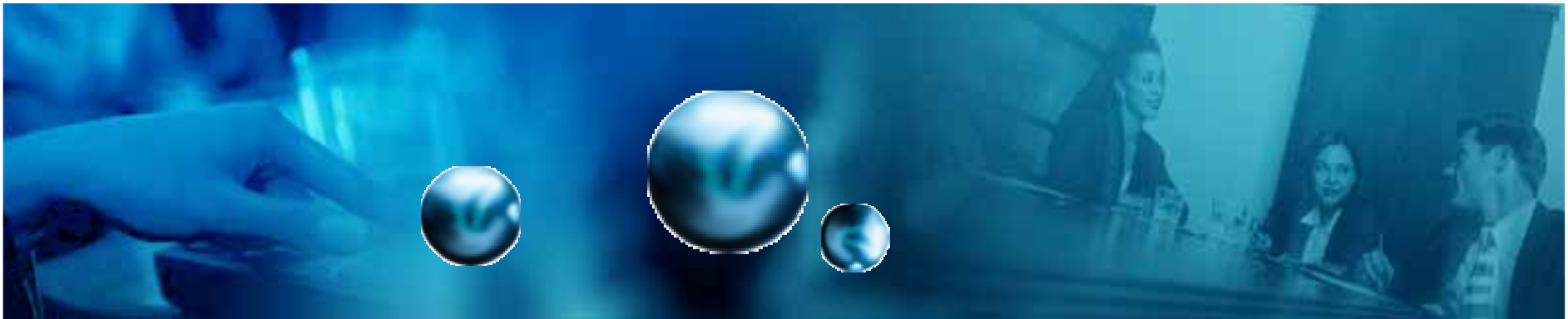


# 宁波华联电子有限公司

Ningbo Hualian Electronic Science & Technology Co., Ltd

## Company Profile



# 目录 CATALOG

- 一、 Company informations & location
- 二、 History of company
- 三、 Company's Certificate
- 四、 Principle of management
- 五、 Organization chart
- 六、 Business performance & main serve customer
- 七、 Technology Roadmap(LED & VFD)
- 八、 Products development & application
- 九、 Test center & list



# 公司概況

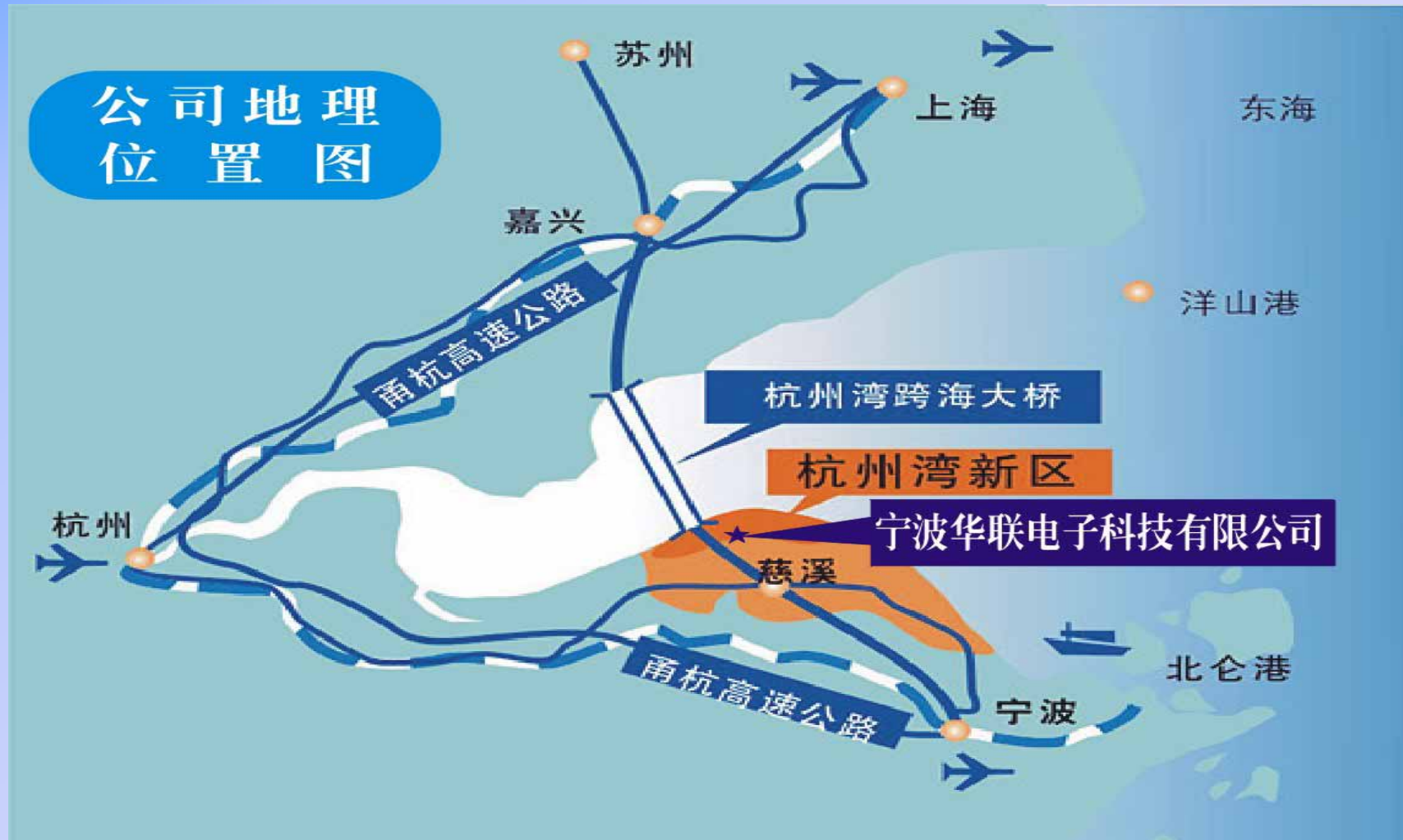
## COMPANY INFORMATION

宁波华联电子科技有限公司  
*NingBo HuaLian Electronic Science & Technology Co., Ltd.*

# 公司概况 COMPANY INFORMATIONS

Set up time: In1990  
President : Yongjun Ying  
General manager: Weiwei Feng  
Registered capital: sixteen million eight hundred and sixty thousand yuan  
Company address : Wei san RD, Andong Industrial Zone Cixi Ningbo.China  
Ground Area: About 50,000 square meters  
Building area: About 40,000 square meters  
Employees: About 800 members

# 公司地理位置图 LOCATION MAP





# 公司成长历史

GLOWING HISTORY

宁波华联电子科技有限公司

*NingBo HuaLian Electronic Science & Technology Co., Ltd.*

# 公司成长历史 COMPANY HISTORY

In 1990, Mr. Ying established HuaLian Potentiometer Factory and started to produce the modular straight slide potentiometer.

In 1993, we developed and produced the motor potentiometer 1604 and 1615, successfully to apply for national patent.

In 1994, we produced the High-grade motor potentiometer, occupied the domestic market more than 90%.

编码器CODER  
EC1612A (EC1612A)



电位器POTENTIOMETER  
WHE1615A



# 公司成长历史 COMPANY HISTORY

In 1998, we developed and produced the Vacuum Fluorescent Display, (for short VFD), mainly used in the display of all kinds of household appliances, instruments and meters.



In 2001, we passed the ISO9001:2001 auditing and certification.



In 2001, we completed technical Improvement and expanding production line, at that time the annual output could reach 18,000,000 PCS.

Became to be the second largest VFD factory in China.



# 公司成长历史 COMPANY HISTORY

In 2002 , we invested in the Hangzhou Bay Sea-Crossing Bridge.

In september 2003 , the full-automatic production line of LED business division put into production formally, used in the display of all kinds of household appliances、 instruments and meters.

In 2003 we had the honour to get the exempted from inspection certificate of SiChuan ChangHong of VFD display.

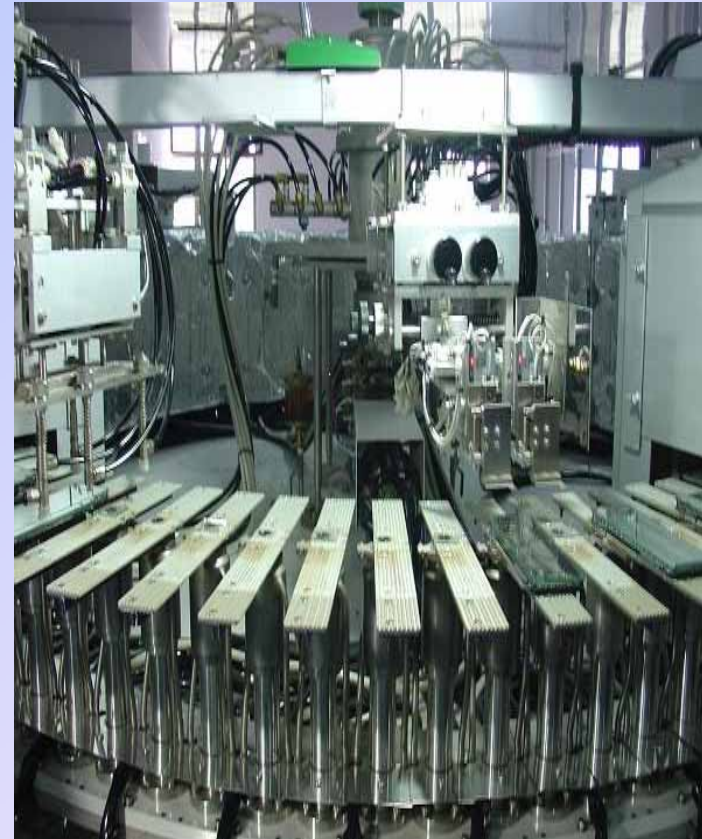
In 2004, the building of LED business division was completed and used.



*NingBo HuaLian Electronic Science & Technology Co., Ltd.*

# 公司成长历史 COMPANY HISTORY

In 2004, We purchased machine from Japan for the VFD business division. then became to be the second which had the ability to produce the no tube VFD display



*NingBo HuaLian Electronic Science & Technology Co., Ltd.*

# COMPANY HISTORY

In 2004, the LED business division set up tooling workshop, design and open customized products, To provide more convenient and quick technical services.

In 2005-2007, the LED business division went through Technology improvement and expanding production line several times, and introduced the most advanced automatic production equipment. The production line of annual output 750 kk.





# 公司成长历史 COMPANY HISTORY

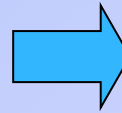
In 2006, the VFD business division purchased two equipments and invested the thin film production line, which marked HuaLian became to be one of the world's leading of VFD display manufacturers.



*NingBo HuaLian Electronic Science & Technology Co., Ltd.*

# 公司成长历史 COMPANY HISTORY

In 2006, Our company passed by the GE, JABIL, SAMSUNG, AVAGO auditing.



Assessment Results	Jabil						
Supplier Name	Ningbo HuaLian Electro	Location	Waiwan Road, Andong Industrial Zone, Cixi, China 315122				
Assessment Date (immediary)	11/25/2005						
Final Score	Number of Required Questions	Number of Required Questions Denied (Not Applicable (N/A))	Number of Required Questions Passed	Number of Required Questions With score = 2	Number of Required Questions With score = 1	Number of Required Questions With score = 0	Score Achieved (Required Questions)
Section 1 - Automotive	27	0	27	0	0	0	27 Approved
Section 2 - Consumer Products	16	0	16	0	0	0	16 Approved
Section 3 - Computing, Telecom, High End Computing and Storage	15	0	15	0	0	0	15 Approved
Section 4 - Medical, Instrumentation, Aerospace, Defense	10	0	10	0	0	0	10 Approved
Section 5 - Legal Products	5	0	5	0	0	0	5 Approved
Supplier assessment using diagnosis as defined as:							
Ranking	Risk						
Approved	Approved: Supplier's systems fully meet minimal sector requirements and expectations. Supplier can be added to "Approved" list. Supplier to submit Corrective Actions for any sector required questions with ratings = 2.						
Provisional	Provisional: Supplier's systems meet nearly all minimal sector requirements and expectations with only minor issues identified. Supplier can be approved on a "Provisional" basis while taking Corrective Action on any sector required questions with ratings = 2.						
Developmental I	Developmental I: Supplier's systems do not sufficiently meet the minimal sector requirements and expectations. Supplier must submit corrective actions for any sector required questions with ratings = 2. Upon receipt and verification of Corrective Action, supplier may be upgraded.						
Developmental II	Developmental II: Supplier's systems are inadequate to meet the minimal sector requirements and expectations. Critical deficiencies exist. Supplier cannot be considered until Corrective Action is taken on any sector required questions with ratings = 2 and a new full system is						
Sector Rating Criteria							
	Number of Required Questions With Rating = 2	Number of Required Questions With Rating = 1	Number of Required Questions With Rating = 0				
Status	Approved	0	0				
	Provisional	0	0				
	Developmental I	0	0				
	Developmental II	0	0				
Jabil District Team Representative	Date:						
Supplier Contact Person	Date:						



NingBo HuaLian Electronic Science & Technology Co., Ltd.

# 公司成长历史 COMPANY HISTORY

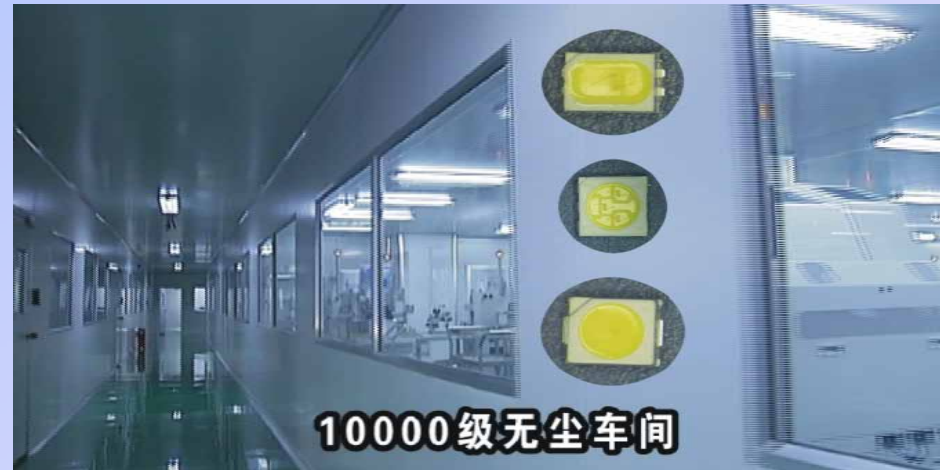
In September 2006, Hualian passed the ISO14001:2004 auditing certification



In 2008, we set up NingBo DongLong Photoelectric Technology Co., Led ,to produce HID (xenon car headlights).

# COMPANY HISTORY

In March 2009, we set up NingBo XueYuan Photoelectric Technology Co., Ltd, which is committed to high-end packaging of PLCC SMD LED.



In March 2010, we went to the comprehensive reform on the staff dormitory. The dormitory facilities are complete, there is air conditioning water, heater, bathroom shower room, etc.





# 荣誉证书

HONOR&CERTIFICATE

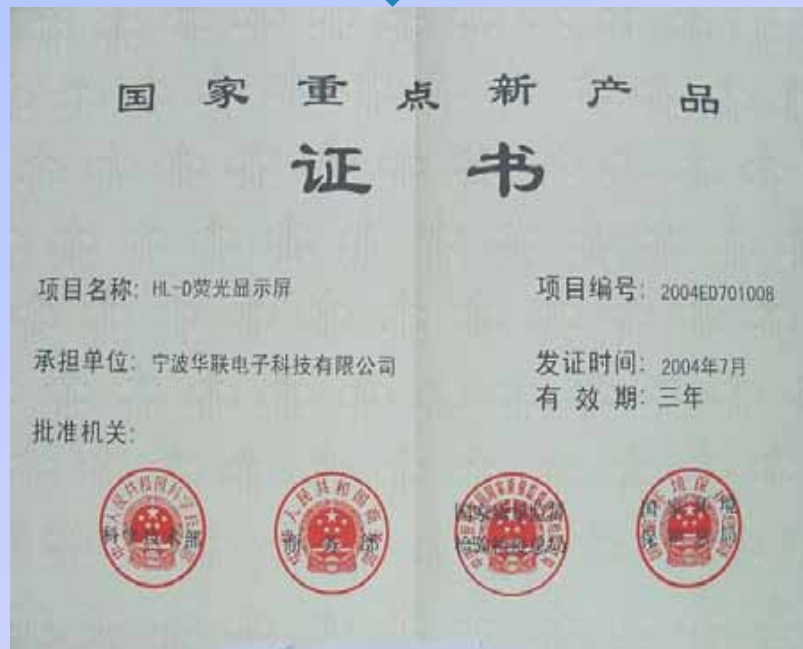
宁波华联电子科技有限公司

*NingBo HuaLian Electronic Science & Technology Co., Ltd.*



# 荣誉证书HONOR&CERTIFICATE

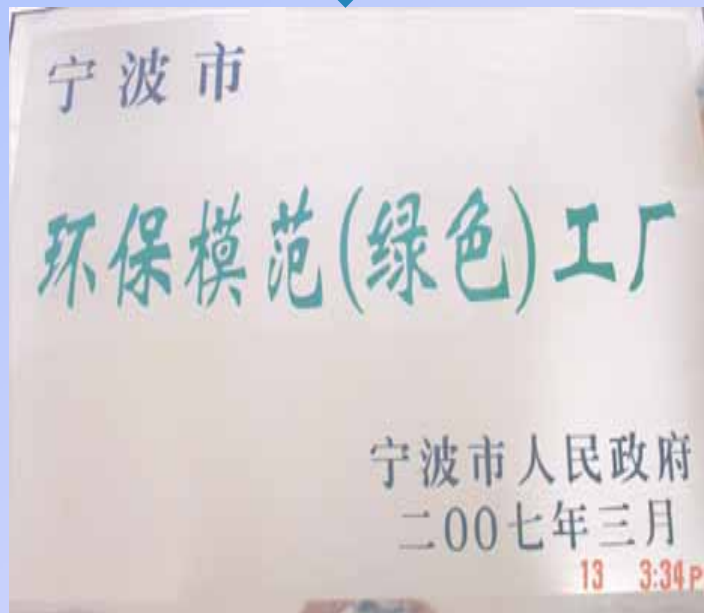
In July 2004, HuaLian Electronic Fluorescent Screen was awarded the national key new product certificate.



In February 2007, HuaLian Electronics was awarded the high-tech enterprise in Ningbo city by Ningbo government.

# 荣誉证书HONOR&CERTIFICATE

In March 2007, the company was honored with the title “Ningbo environmental protection model (green) plant”.



In April 2009, HuaLian Electronics was awarded the harmonious enterprise by Ningbo government.



# 经营理念

## PRINCIPLE OF MANAGEMENT

宁波华联电子科技有限公司  
*NingBo HuaLian Electronic Science & Technology Co., Ltd.*

# 经营理念 PRINCIPLE OF MANAGEMENT

华联精神：干就要干好，一次把事情办成。

SPRIT OF HUALIAN : Do the best, achieve things in one move.

华联之魂：目标要不断更新，不可安于小成。

SOUL OF HUALIAN :One should renew targets continuously, and not be satisfied with only a little success.

华联运筹：财自才来，业从热兴；  
重任智力，治厂之本。

STRATEGY OF HUALIAN: Wealth comes from manpower, enterprise flourish with our passion, recognition&respecting knowledge and talented people is the basic of improving company.

## 质量方针 QUALITY POLITY

“海龙”腾大海，品质创百年。

Quality is the groundwork of our growth, and we will strive daily to improve it.

## 环境方针 ENVIRONMENT POLICY

守法降耗预防污染，精彩显示自然和谐。

Abiding by the raw, reducing the consumption, preventing the pollution, and providing high quality displays, while creating a natural and harmonious environment.

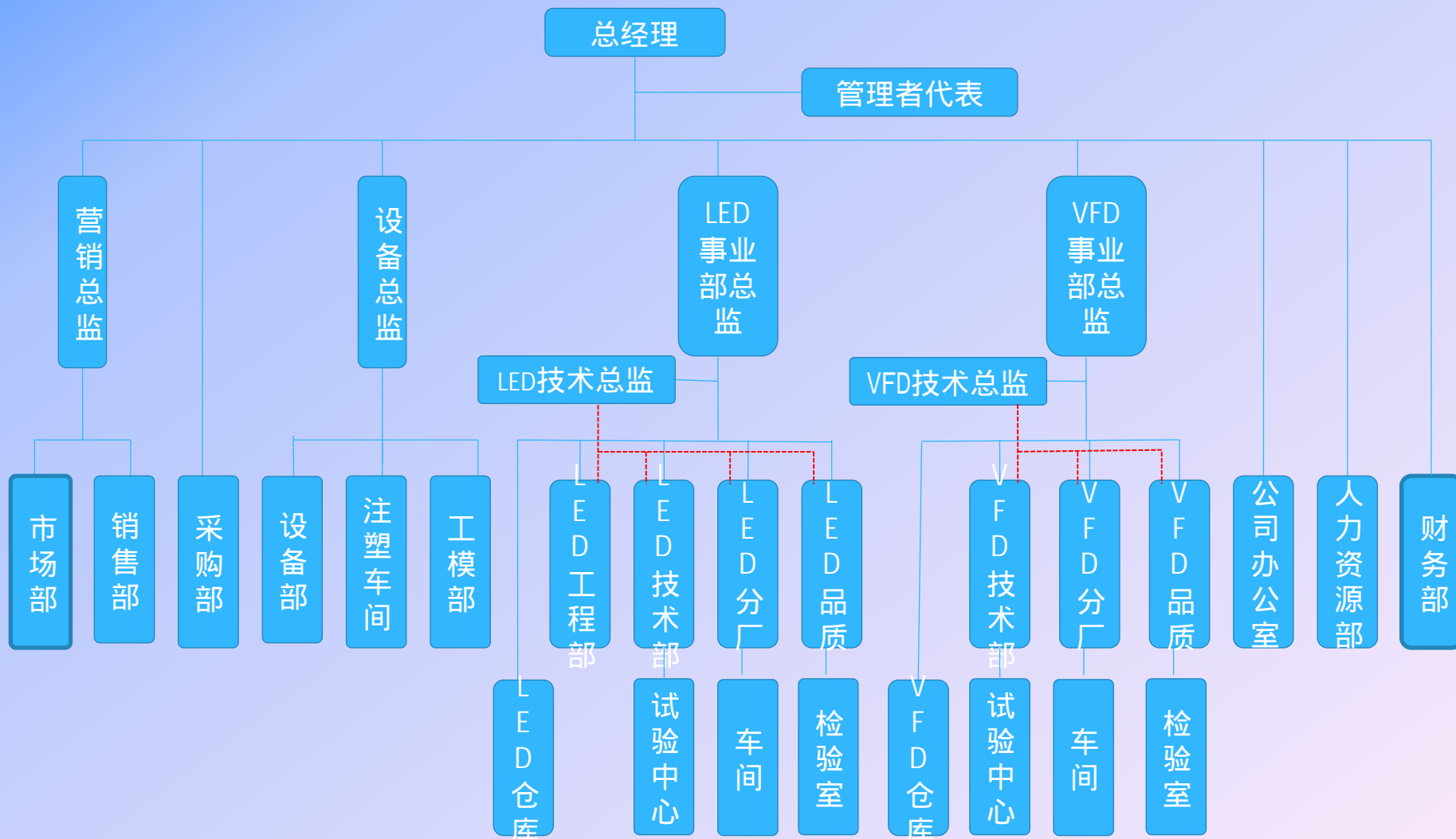


# 组 织 架 构

## ORGANIZATION CHART

宁波华联电子科技有限公司  
*NingBo HuaLian Electronic Science & Technology Co., Ltd.*

# 组织架构 ORGANIZATION CHART



—— 行政管理线

- - - 技术业务指挥线

宁波华联电子科技有限公司

NingBo HuaLian Electronic Science & Technology Co., Ltd.



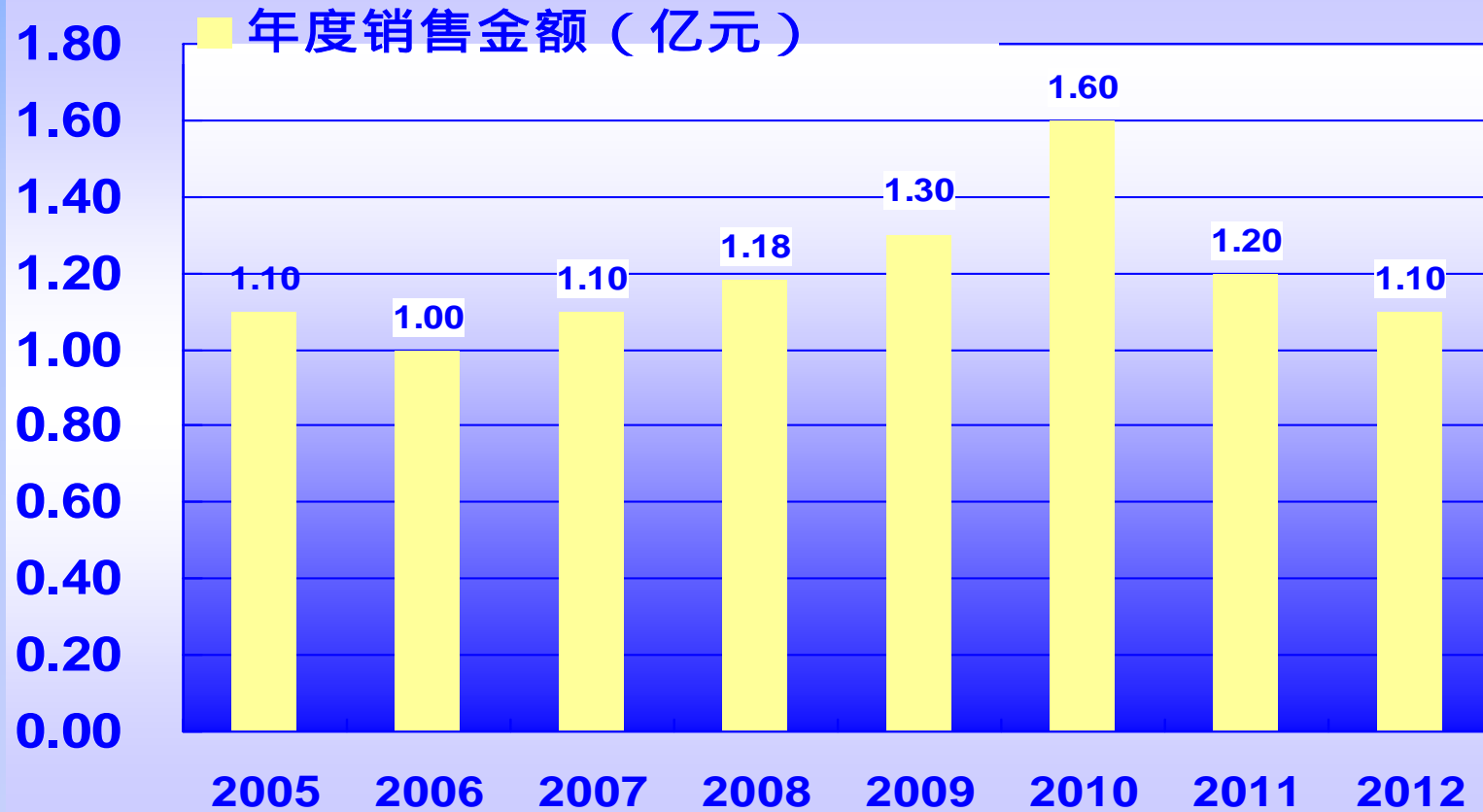
# 经营业绩

## BUSINESS PERFORMANCE

宁波华联电子科技有限公司  
*NingBo HuaLian Electronic Science & Technology Co., Ltd.*



# 经营业绩 BUSINESS PERFORMANCE



# 主要服务客户 MAIN SERVE CUSTOMER



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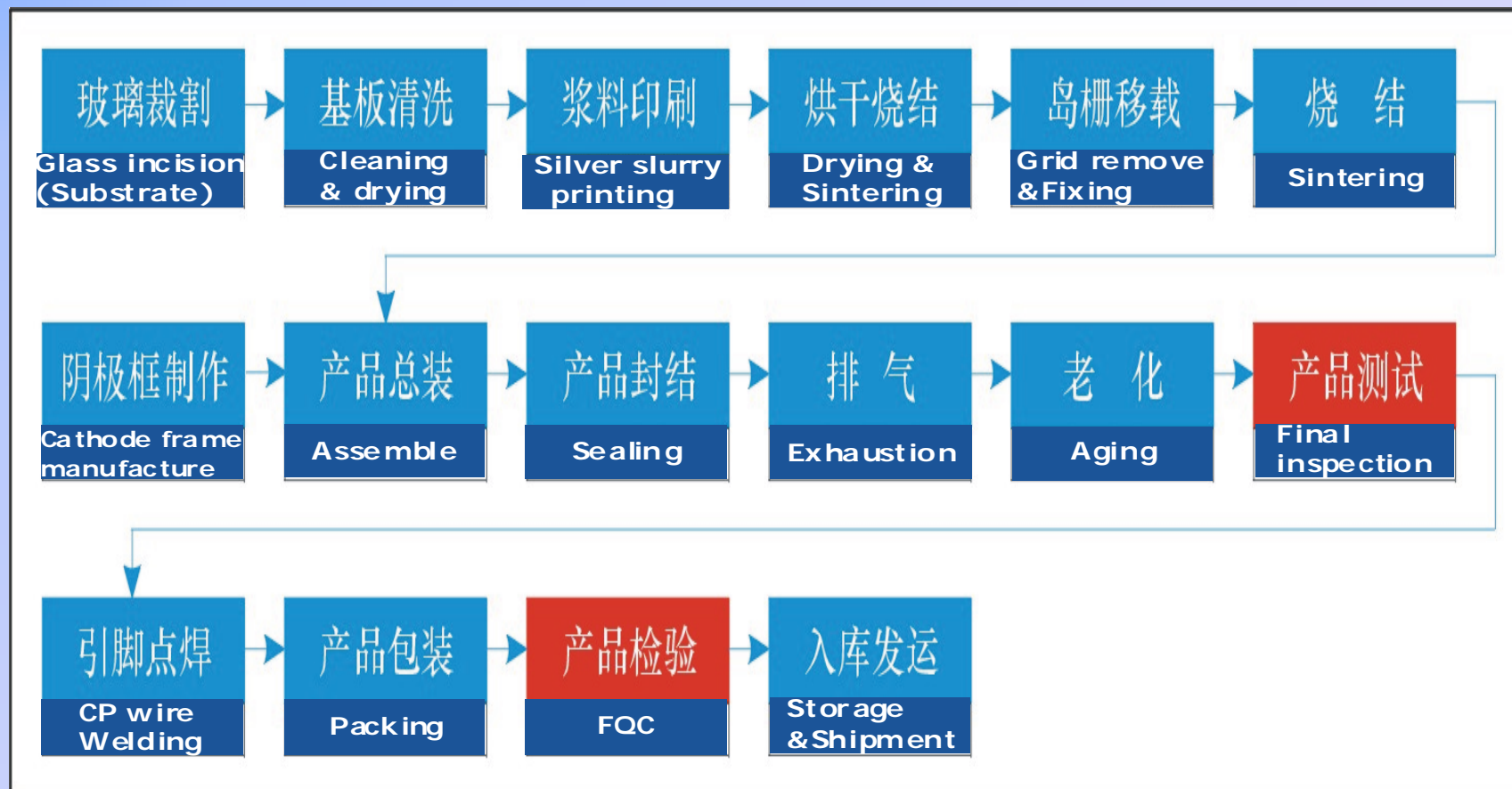
# 工艺流程

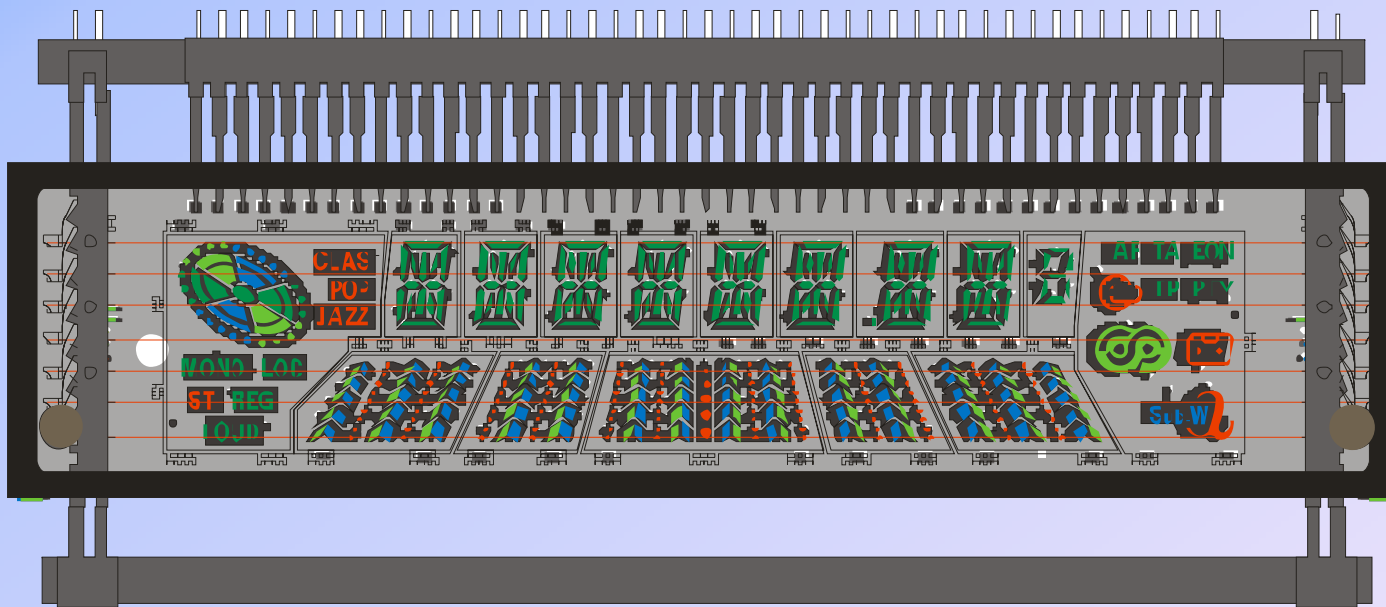
## TECHNOLOGY ROADMAP

宁波华联电子科技有限公司  
*NingBo HuaLian Electronic Science & Technology Co., Ltd.*

# VFD产品生产工艺流程

## VFD Products' Technology Roadmap

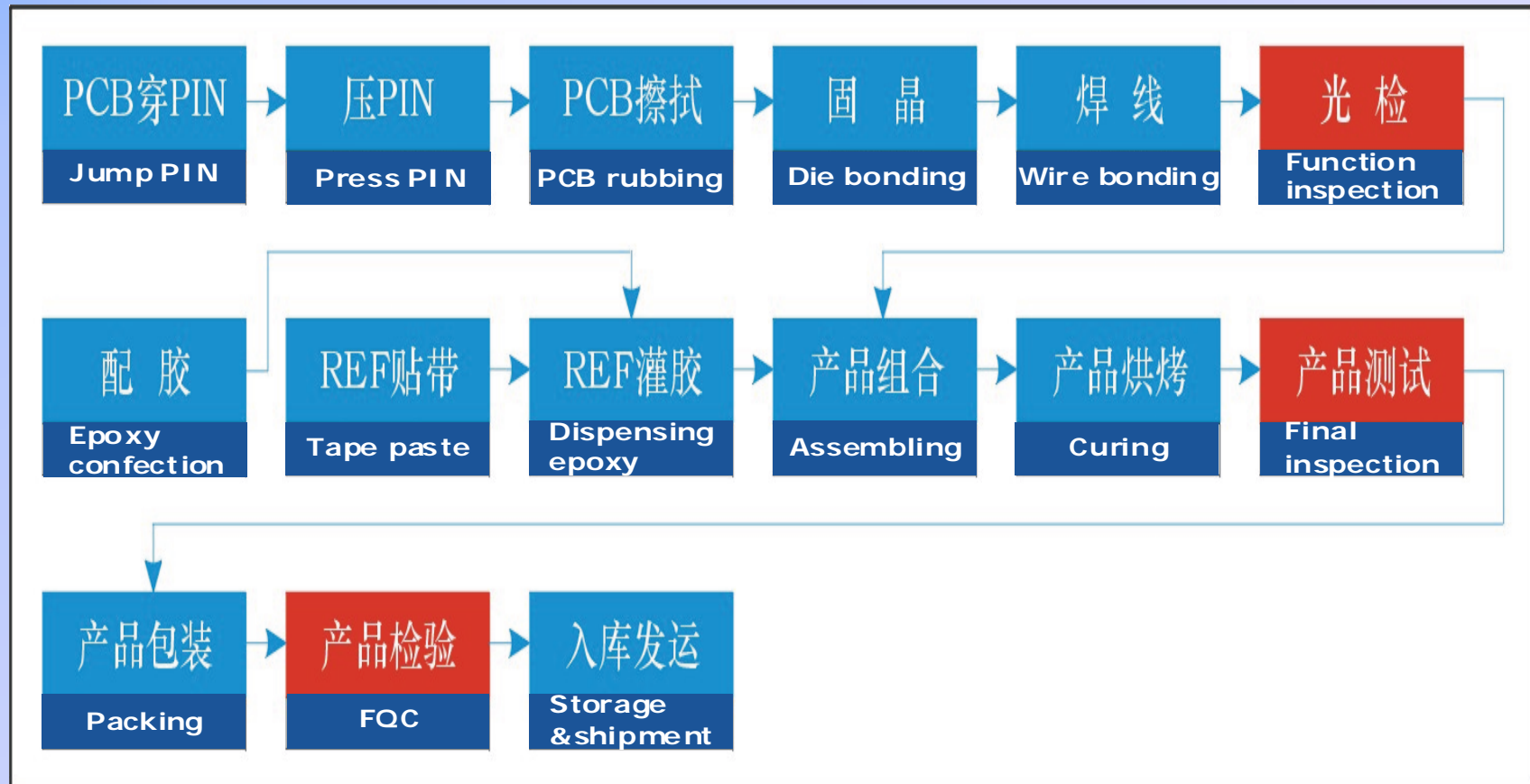


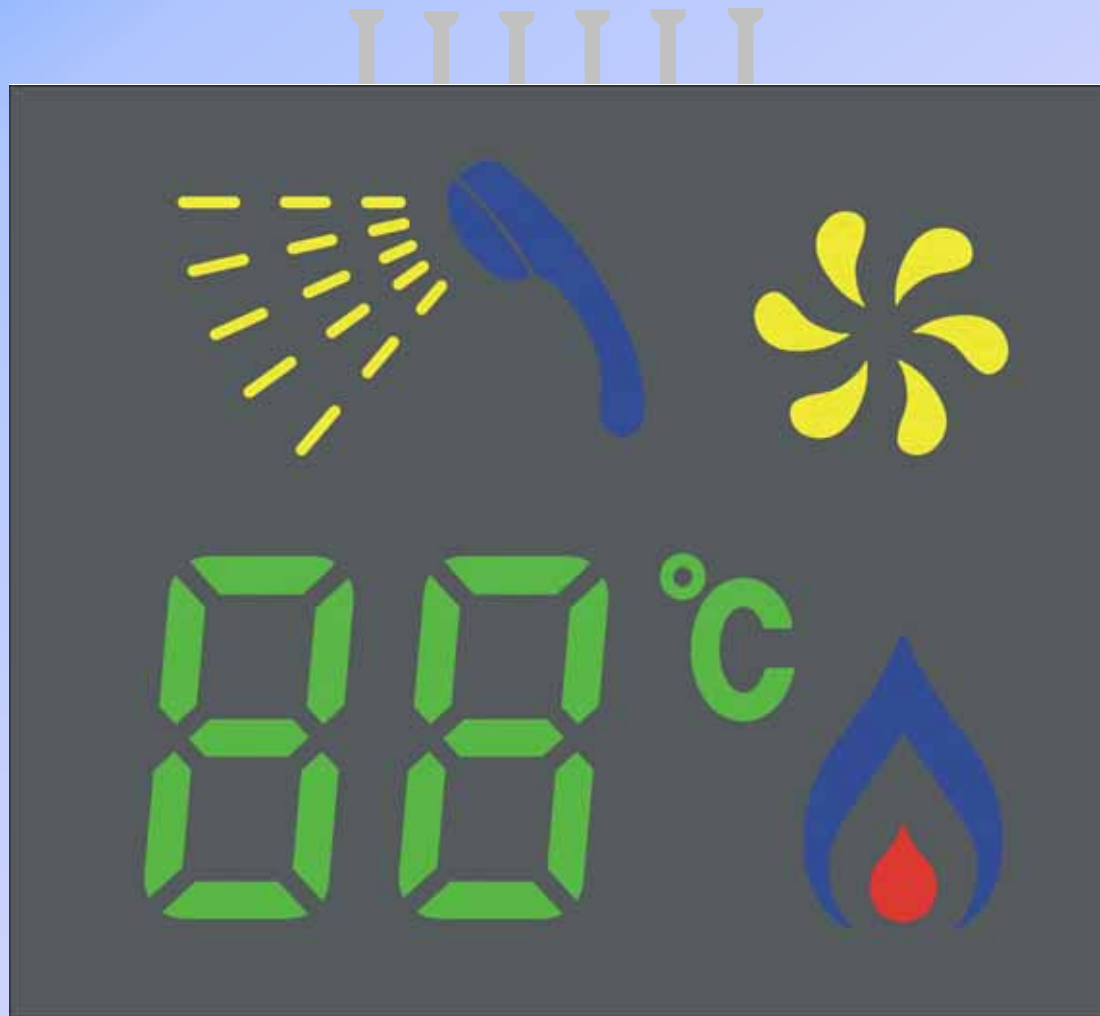


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# LED显示器产品生产工艺流程

## LED Products ' Technology Roadmap





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# 产品发展与应用

PRODUCTS DEVELOPMENT&APPLICATION

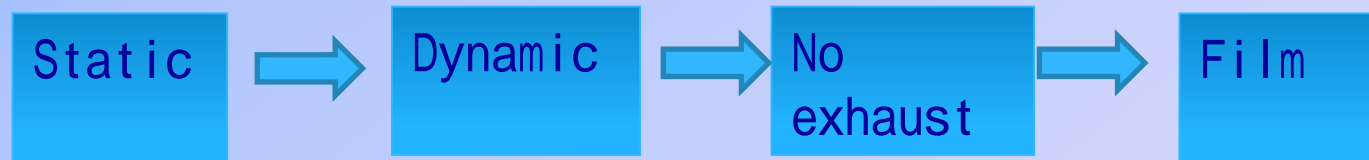
宁波华联电子科技有限公司

*NingBo HuaLian Electronic Science & Technology Co., Ltd.*

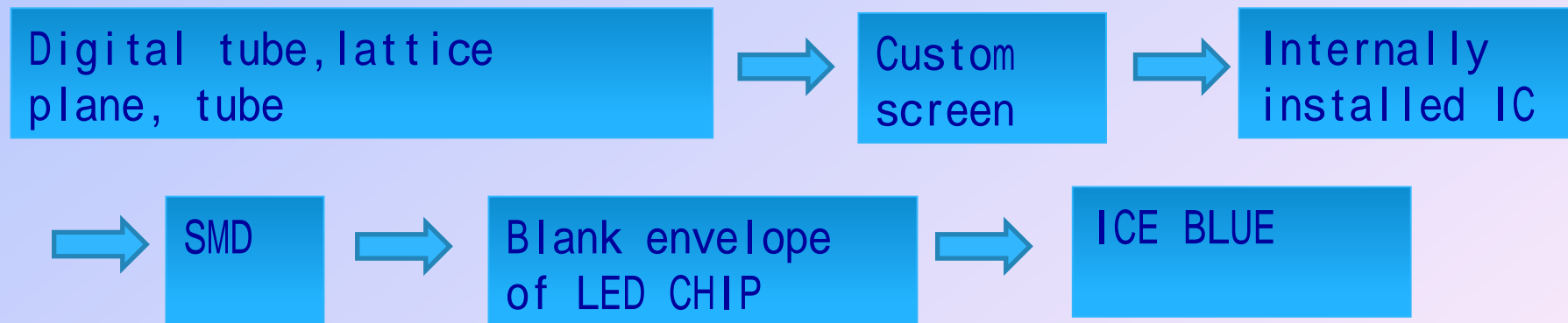


# PRODUCTS DEVELOPMENT

VFD product development :



LED product development :



# 产品发展 PRODUCTS DEVELOPMENT

VFD产品发展：

静态 → 动态 → 无排 → 薄膜

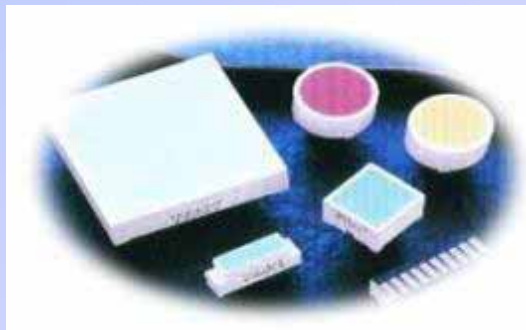
LED产品发展：

数码管、点阵、平面管 → 订制屏 → 内置IC

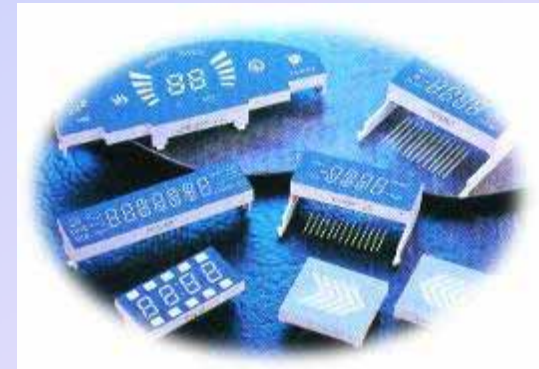
→ SMD → LED CHIP空封 → ICE BLUE

# PRODUCTS DEVELOPMENT

Digital tube, lattice  
plane, tube



Custom  
screen



# PRODUCTS DEVELOPMENT

Internally  
installed IC



SMD



# 产品发展 PRODUCTS DEVELOPMENT

LED CHIP空封

ICE BLUE



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NingBo HuaLian Electronic Science & Technology Co., Ltd.

# 产品应用 PRODUCTS APPLICATION

Products are widely used in all kinds of household appliance and Instrument.

Refrigerator , microwave oven, induction cooker , dishwasher , alexipharmic ark , lampblack machine , water heater , water dispenser , lampblack machine and more kitchen household appliance.

Air-conditioning, washing machine, set-top box, DVD, massage chair, fitness equipment, and other home appliances.

Elevator, car screen, POS, weighing apparatus instrument, etc



# 试验中心, 实验项目

TEST CENTER , TEST LIST

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PMS-50 Uv-vis - near infrared spectrum analysis system



Salt spray tests



High-low temperature test chamber



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## Damp Heat Testing Equipment



## Thermal Shock Test



Optoelectronic components  
drying oven



TEMP&HUM I  
chamber



His arms whereabouts tester



Mechanical vibration table



Stream Aging Tester, Steam Aging Test Machine



## TEST LIST

No.	Test item	No.	Test item
1	High and low temperature storage	7	Fall off
2	Thermal shock	8	Vibration
3	High temperature and high humidity storage	9	Large current shock
4	Salt mist	10	Resistance welding
5	Common temperature aging	11	Weldability
6	Thermophilic digestion		

NingBo HuaLian Electronic Science&Technology Co.,Ltd.



Thank you