QINGYUE 清越

Suzhou QINGYUE Optoelectronics Technology Co., Ltd. Introduction

清 越 科 技　创 新 塑 造 未 来

QINGYUE 清越

01 Brief Introduction

Brief Introduction

QINGYUE 清越

Jiang Su

Zhe Jiang

Jiang Xi

Shan Dong

- Core technology originated from the OLED project team of Tsinghua University in 1996
- Registered capital: RMB 360000000 ($56M)
- First high-tech enterprise specializing in OLED independent R & D, mass production and marketing in Mainland China
- Global Leading Supplier of new generation display
- PMOLED shipment ranked NO. 1 in the global market

Remarkable Development Map

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Relevant patents obtained 457 , Of which 274 were invention patents

Leading the formulation of 3 international standards ,3 national standards ,3 industry standards

Participation in the development of 1 international standard ,4 national standards ,1 industry standard

1996 Establishment of Tsinghua University OLED Project

2001 Establishment of Beijing VISIONOX

2002 Build first OLED pilot line of China

2006 Prepare for the MP line of PMOLED

2008 Build the first OLED production line of China

2010 Establishment of KUNSHAN VISIONOX

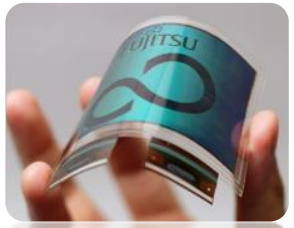
2012 PMOLED shipment rank No.1

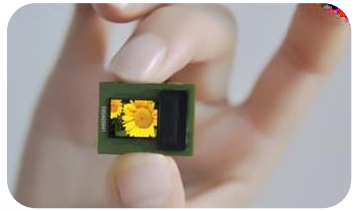
2018 KUNSHAN VISIONOX Reorganization and Establishment of KUNSHAN MENGXIAN

2020 Establishment of YIWU QINGYUE

2020 20th, Oct, 2020 Change company name to QINGYUE

Customer Orientation

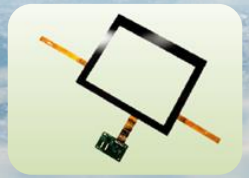




OLED

E-Paper

Mirco OLED



CTP

LCD

Customer Orientation

Global Shipment Position

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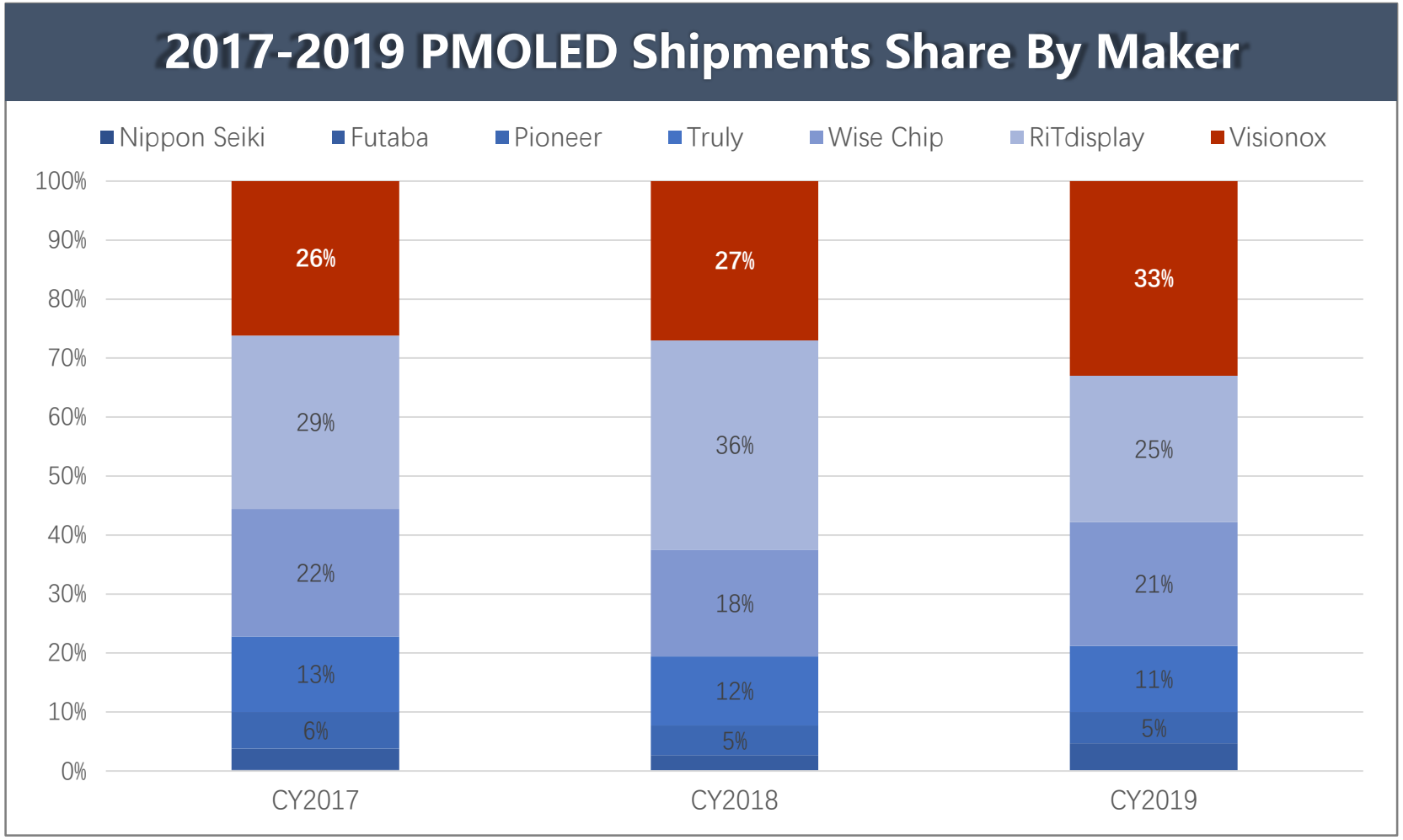
Global shipments have been in the range of top two since 2012



DATA Source : CINNO

Cooperation List

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华为季度质量绩效考核满分

三星协力社评 A 级供应商

SID(国际信息显示学会) 杰出产品奖

小米生态链最佳战略合作奖

华米科技年度战略合作伙伴

Soul of Innovation

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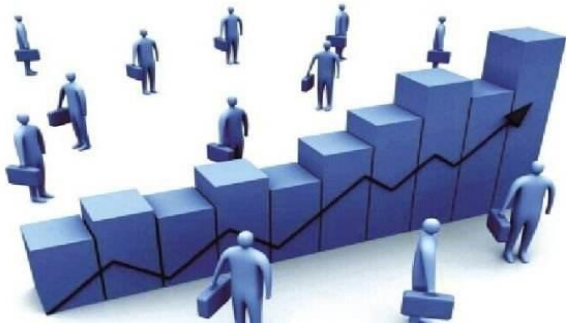
Technical innovation

Product innovation

Management innovation



Market innovation

Core Team

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- Deeply cultivation of optoelectronic display field for 24 years, formed a high-level talent team
- More than 200 core R & D, engineering and management personnel,
- Accumulated reach experience on R & D, production line operation, device design, product development and operation management

Valuable Awards

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- First Prize of National Technological Invention
- China Patent Gold Award
- National Specialized and New Small Giant Enterprise
- National Electronic Information Science and Technology
- Gold Award at International Invention Exhibition
- National Youth Science and Technology Award
- National Youth Entrepreneurship Award
- National Standard Innovation Contribution Award
- National key new products
- National independent innovation products

国家技术发明奖

证 书

为表彰国家技术发明奖获得者，特颁发此证书。

项目名称：有机发光显示材料、器件与工艺集成技术和应用

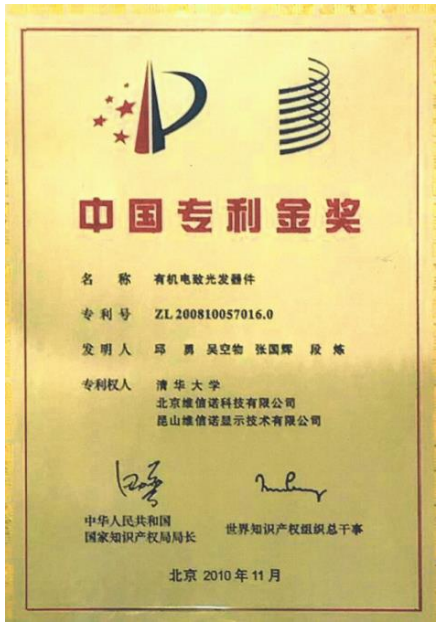
奖励等级：一等

获 奖 者：高裕弟(昆山维信诺显示技术有限公司)

2011年12月23日

证书号：2011-F-214-1-01-R05

National first prize for technological inventions



中国专利金奖

名 称 有机电致光发器件

专利号 ZL 200810057016.0

发明人 邱 勇 吴空物 张国辉 段 炼

专利权人 清华大学
北京维信诺科技有限公司
昆山维信诺显示技术有限公司

中华人民共和国
国家知识产权局局长

世界知识产权组织总干事

北京 2010年11月

China Patent Gold Medal

November 2020, was awarded the title of the new small giant enterprise

Certificates

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Honorable Achievements

Management System Certification:

ISO9001

ISO14001

IATF16949

GB/T29490

QC080000

DB32/T2771

OHSAS18001

Safety production standardization level 2

Leadership Care

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The Premier Wen Jiabao inspects in 2011

The Vice Premier Li Keqiang inspected in 2012

Academician Zhou Guangzhao Inspected in 2008

National Minister of Science and Technology Wan Gang inspected in 2018

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02 Main Products---OLED

OLED

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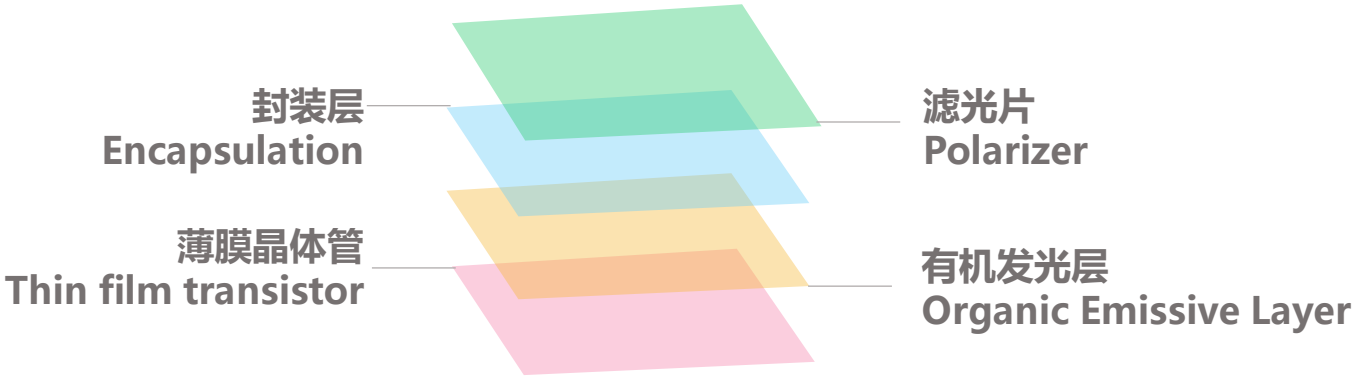

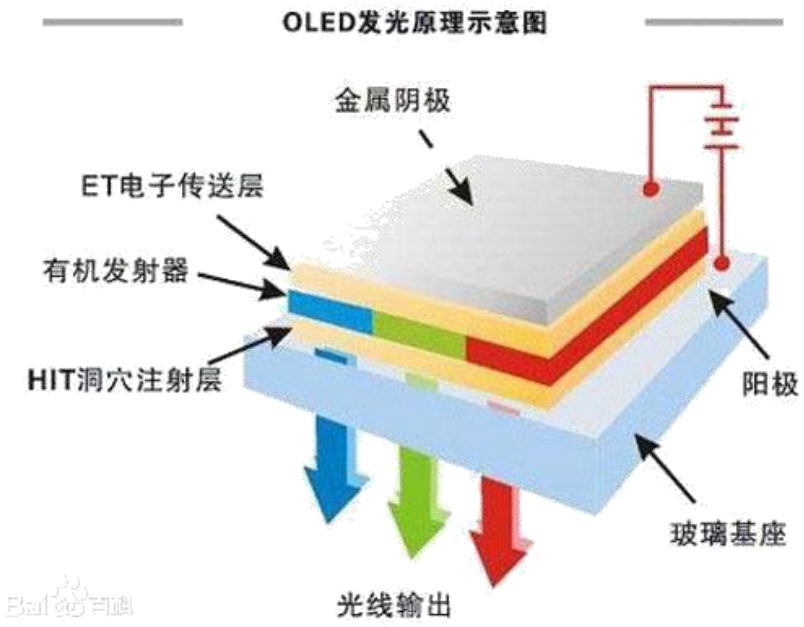

OLED is a kind of technology of luminescence of organic materials under the action of electric field, including passive driving OLED (pm OLED) and active driving OLED (am OLED). it is a new generation of flat panel display technology after CRT、LCD, which is called "**dreamlike display technology** "

OLED Main Advantages

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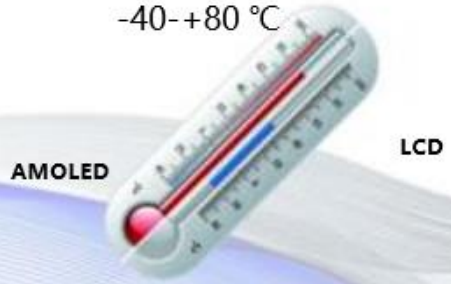
High Contrast Ratio

OLED: 100,000:1

LCD: 1,000:1

Wild Temperature Range

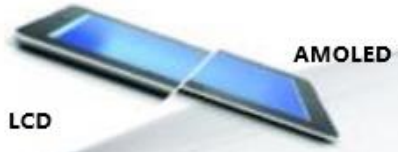
-40-+80 ℃



Super Thin

Self-luminous. No backlight Required.

Super thin(½ of TFT-LCD)



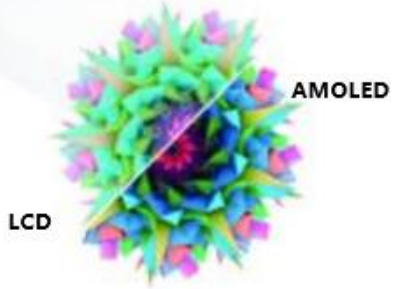
Better Power Consumption

Flexible

Creating Structural variability

Excellent Response Time

In microseconds, the response speed is 1,000 times that of TFT-LCD



Wild Gamut

NTSC reach more than 100%

OLED Main Applications

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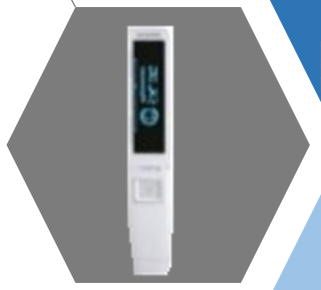
Medical Device

Smart Education



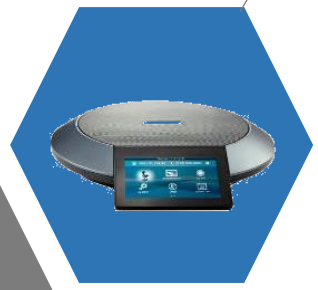
Smart Meters

Home Appliance

Smart remote

Wearable Device

IP Phone



VR glass

Financial Device

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02 Main Products---E-Paper

E-Paper

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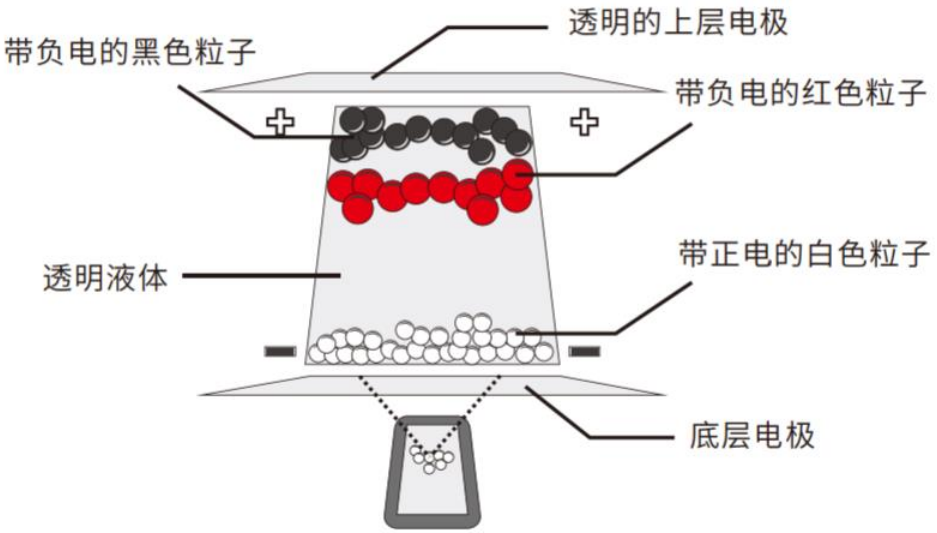
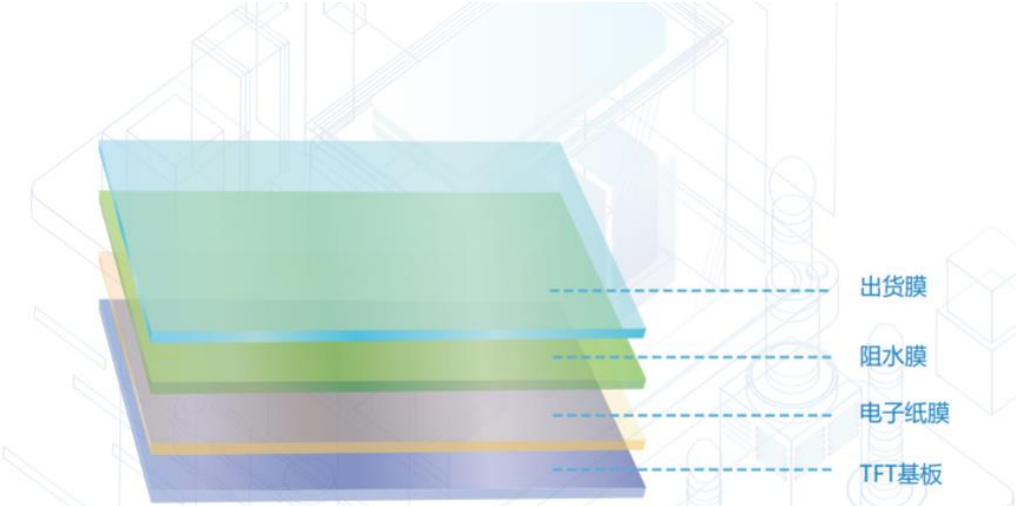
E-paper(Electronic paper) is a thin film display similar to paper. It has the advantages of paper and can continuously change the display content like an electronic display. According to the technical ways to realize electronic paper, it is divided into electrophoretic display technology, cholesterol liquid crystal display technology and electrowetting display technology. Among them, electrophoretic display technology is the most mainstream.



电子墨水薄膜：微胶囊技术



电子纸结构示意图

E-Paper Characteristics

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- Low Power Consumption
- Flexible
- Sunlight Readability
- Super Light
- Ultra Wide viewing angle
- Paper Like Texture
- Display without Power consumption
- Eye Protection No Blue-Ray
- Anti-drop and Tough

E-Paper Main Applications

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E-paper Capacity automatic production line design capacity: 40KK/Y, to be the first place in 2021 over the nation.

E-paper

E-Price Tag

E-Billboard or Ad board

E-Bus Station Indication

E-notebook

E-wallet

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02 Main Products---TFT

TFT-LCD

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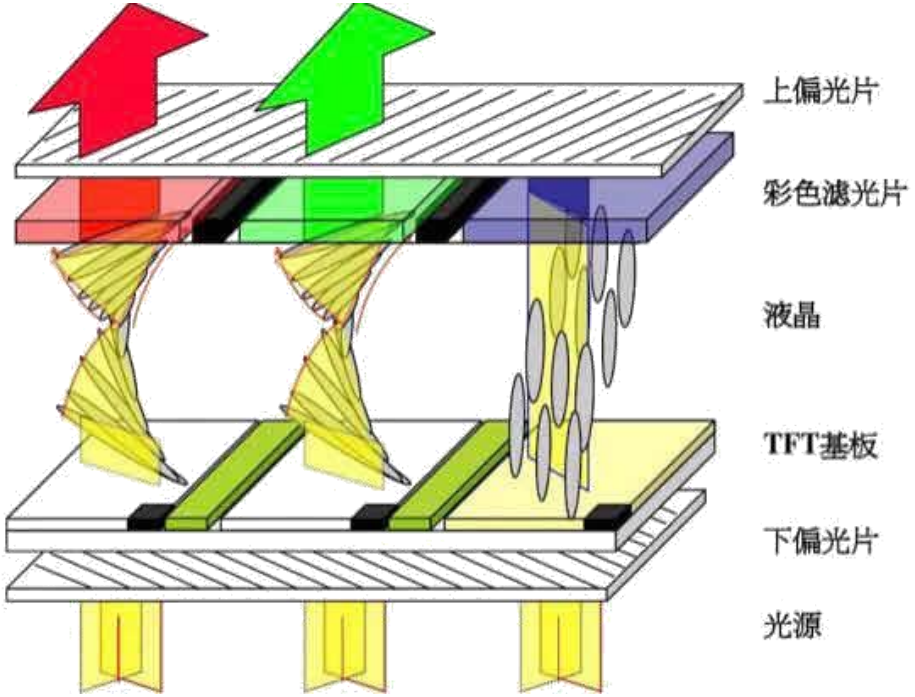
TFT-LCD(thin film transistor liquid crystal display) is one of most popular displays. The TFT display screen is a kind of active matrix liquid crystal display device, which is one of the best color display devices, every liquid crystal pixel on screen is driven by a thin film transistor integrated behind the pixel dot.



CTP Modules

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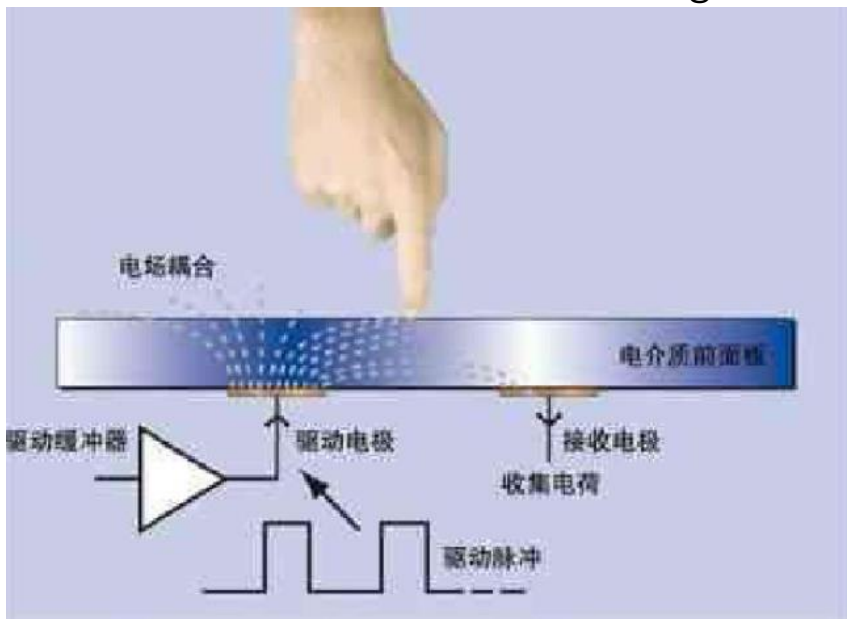
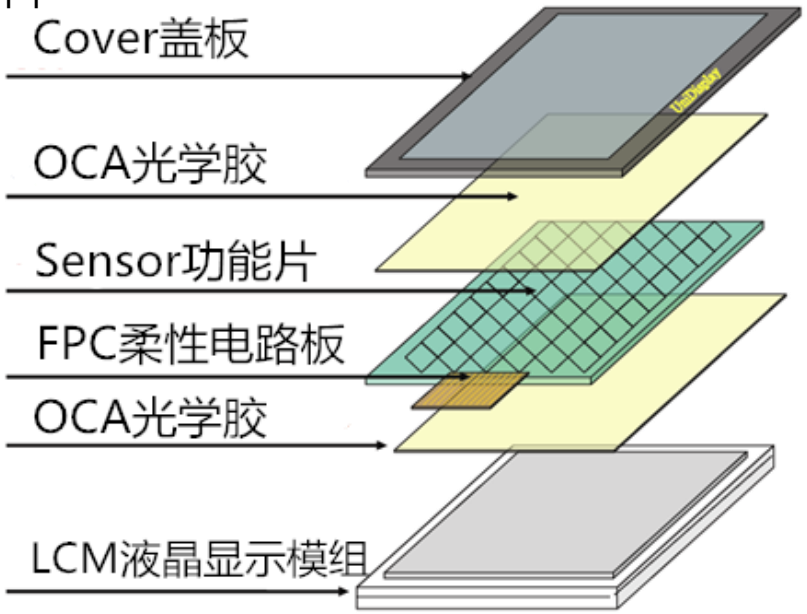
Capacitive Touch Panel CTP works using the body's current sense. The structure of capacitive touch screen is mainly to coat a transparent thin film layer on the glass screen, and then add a protective glass to the conductor layer. The double layer glass design can completely protect the conductor layer and sensor, and the transmittance is higher. It can also supports multi-touch better.





CTP Modules

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12” TFT OCA bonding (payment system in gasoline station)

0.95” AMOLED OCA boding (HUAWEI sports band)

1.6” PMOLED OCA bonding

1.2” TFT OCA bonding (Kids watch)

Overall Applications Areas

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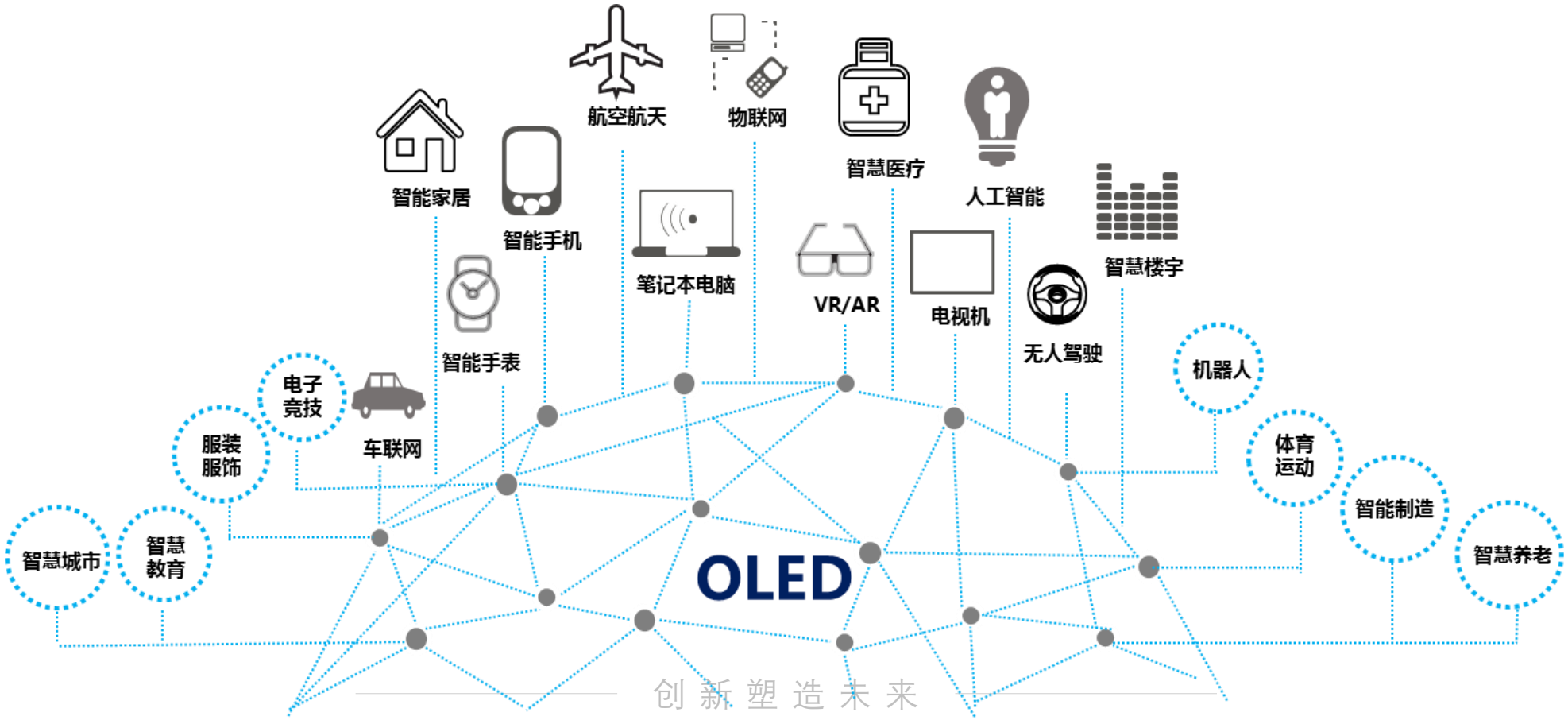
Unleash the imagination of science and technology with unbounded innovation

Innovation Inspires



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THANKS!

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