

yubang

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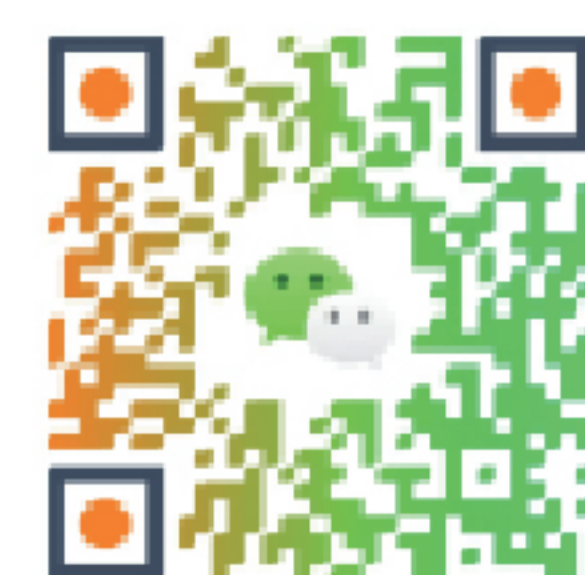
Thank You

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Scan code navigation

Shenzhen Yubang Electronics Co., LTD

Yubang Ruiying (Zhongshan) Electronics Co., Ltd.

Yubang Intelligent Manufacturing (Zhongshan City) Co., LTD

Mini & Micro LED display module manufacturers

Provide LED display manufacturing process & solutions

website: www.yubang96.com



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PART 1

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About us



Shenzhen Yubang Electronics Co., LTD
Shenzhen Yubang Ruish Technology Co., LTD
Yubang Ruiying (Zhongshan) Electronics Co., LTD
Yubang Intelligent Manufacturing (Zhongshan City) Co., LTD

Two production bases in China, Zhongshan & Shenzhen

Number of employees
About 500 people

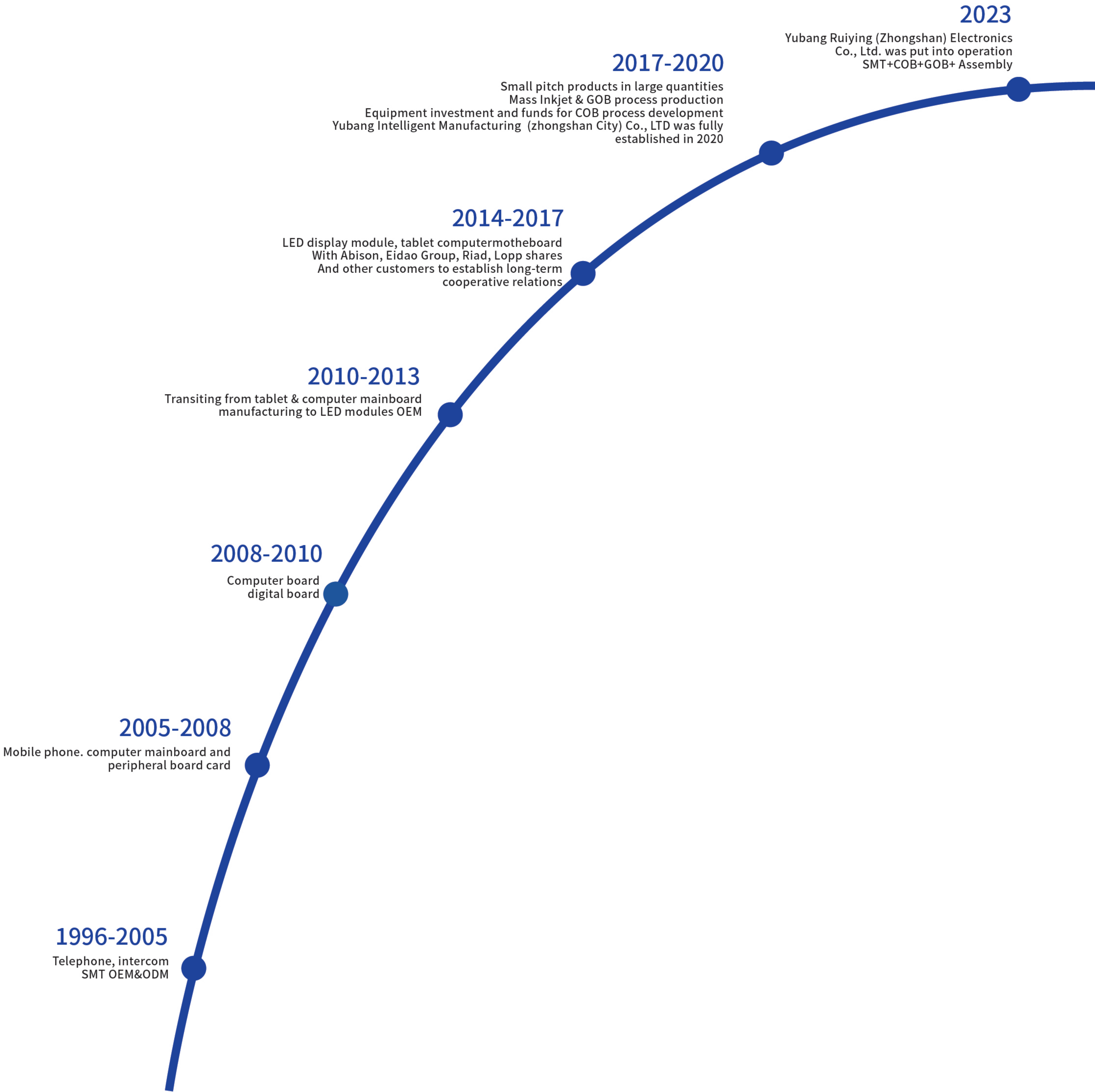
Company profile

With innovation and development driven by science and technology, Shenzhen Yubang Electronics Co., Ltd. has been delving into development and manufacturing of electronic products, After more than 20 years of development, Yubang now owns Shenzhen Yubang Ruishi Technology Co., Ltd., Yubang Intelligent Manufacturing (Zhongshan) Co., Ltd. and Yubang Ruiying (Zhongshan) Electronics Co., Ltd.. It has become a national high-tech enterprise integrating R&D and fullprocess manufacturing solutions to LED displayscreen.



With independent research and development of micro-pitch mass production technology COB, MIP, products are widely used in government transportation, security fields, schools, enterprises, conference centers, Cinema and other scenes; Committed to becoming a professional Mini & Micro LED display module manufacturer.

Development course

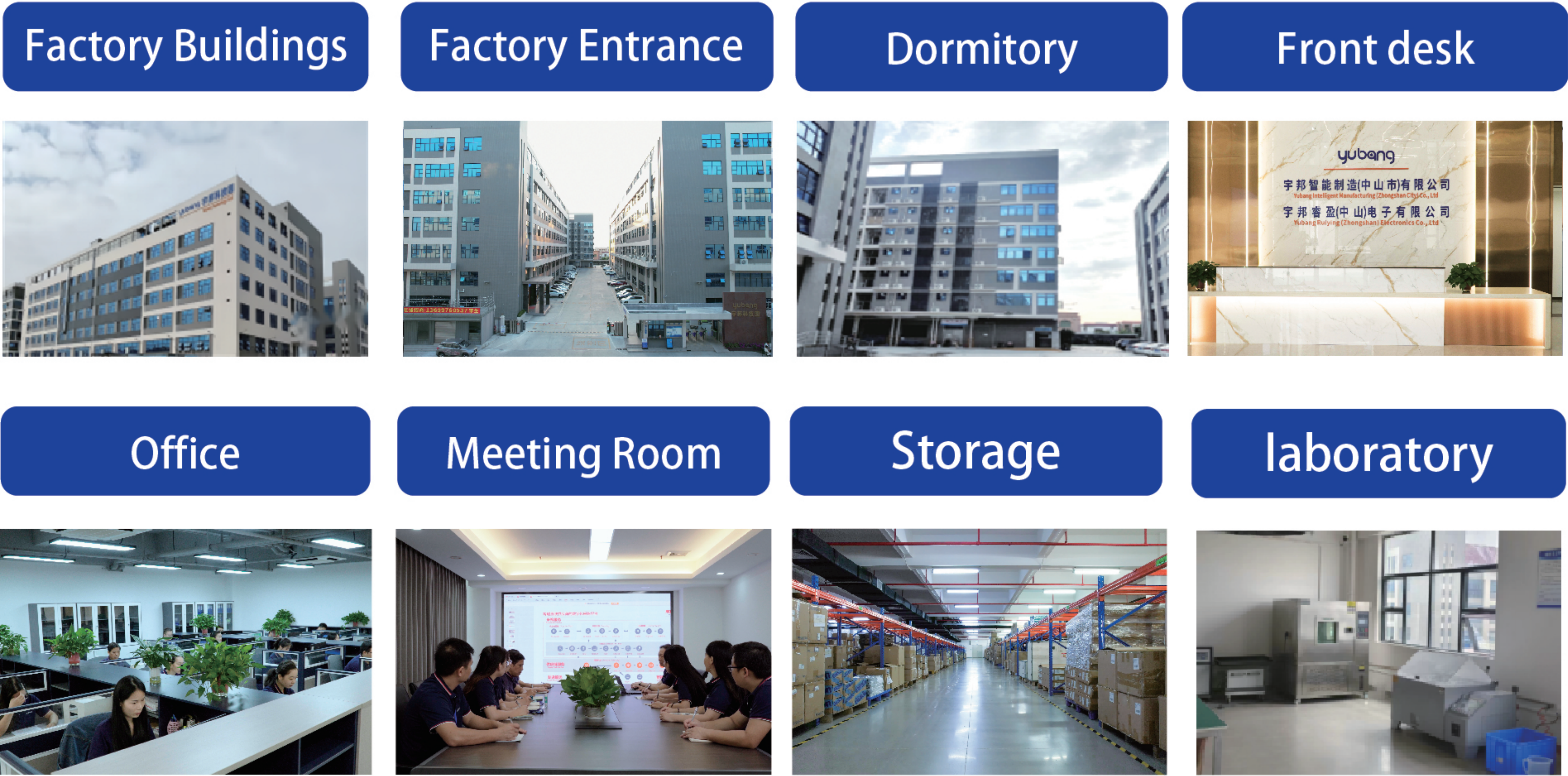
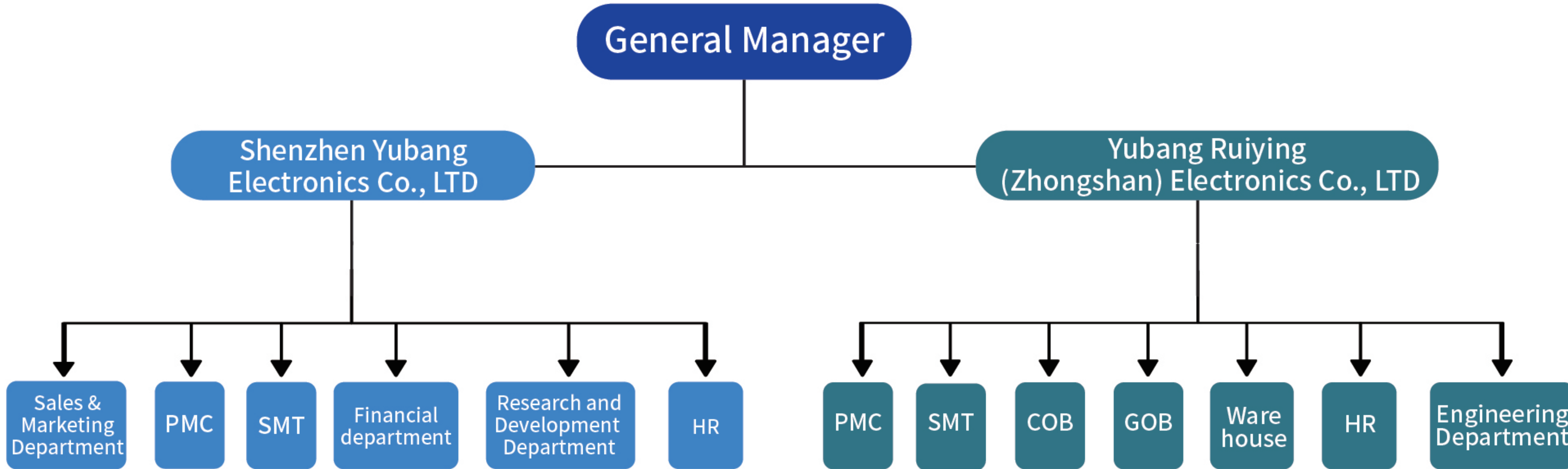


Organizational structure

Zhongshan Yubang intelligent manufacturing Industrial Park



Zhongshan Yubang Intelligent Manufacturing Industrial Park was completed and put into operation in October 2022 with a Ground area of 24,000 square meters and workshop area of 60,000 square meters. Therefore, two manufacturing bases are built up in Shenzhen and Zhongshan respectively.



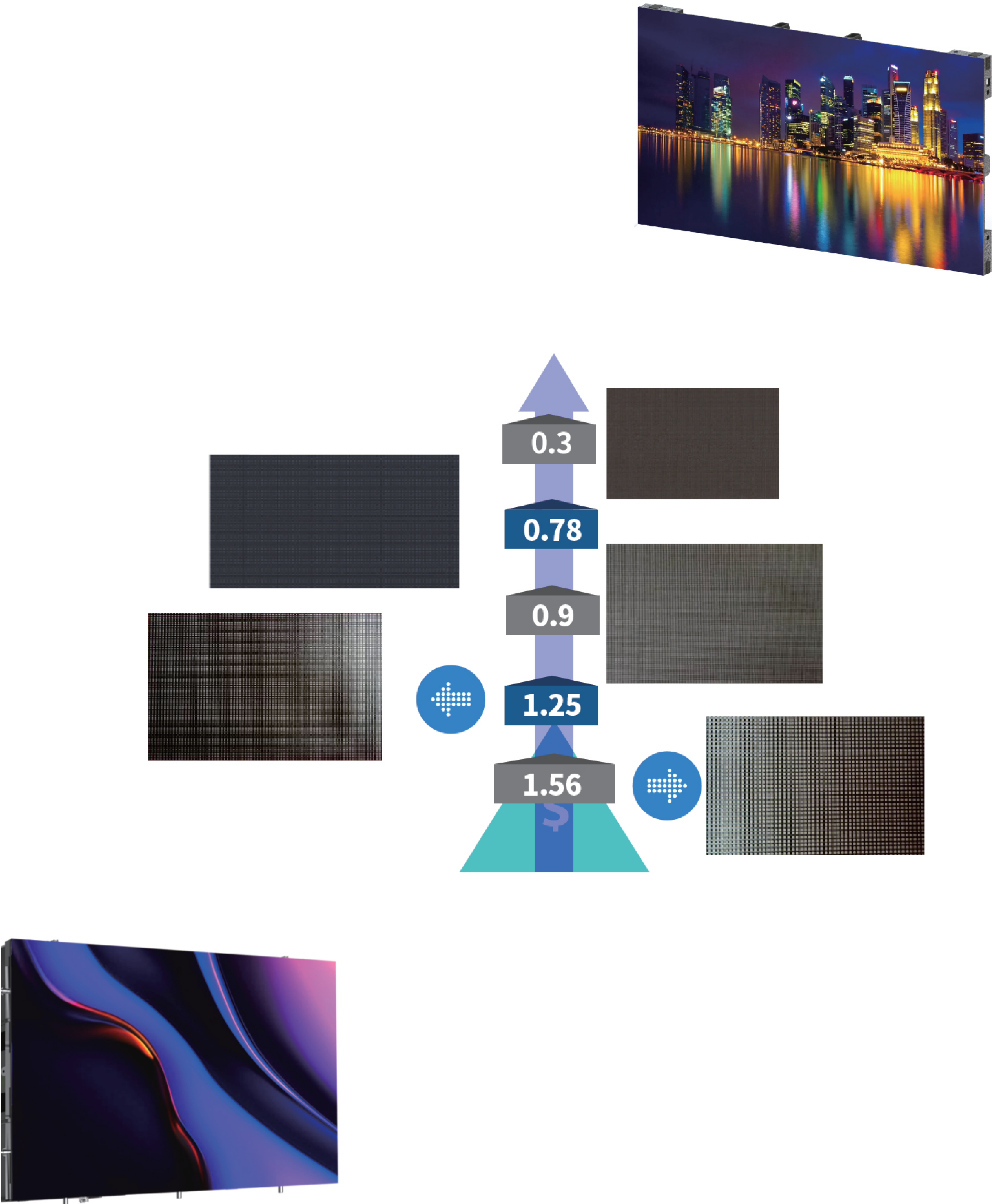


PART 2

Main Products

- Small pitch product
- Mini & Micro LED display
- Transparent screen, arc screen (flexible PCB)
- Smart wearable products
- GOB process (Glue on Board)
- MIP series products (Micro LED in Pices)
- COB series products (Chips on Board)

Small pitch LED display



Mini & Micro LED display

MIP series modules
(P0.9375)



COB series modules
(P1.25)



Micro TV



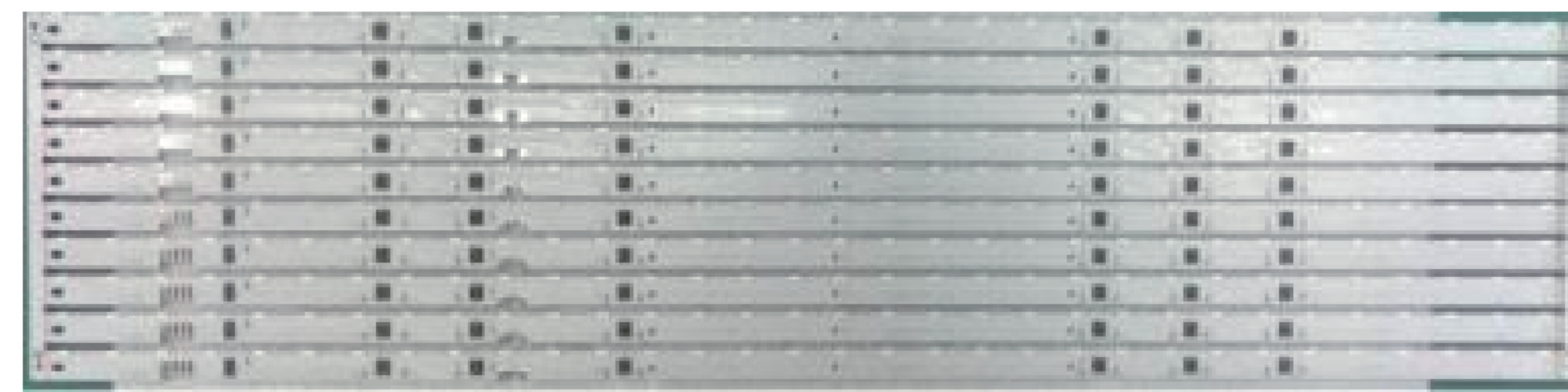
Mini display



Transparent screen Flexible screen module display

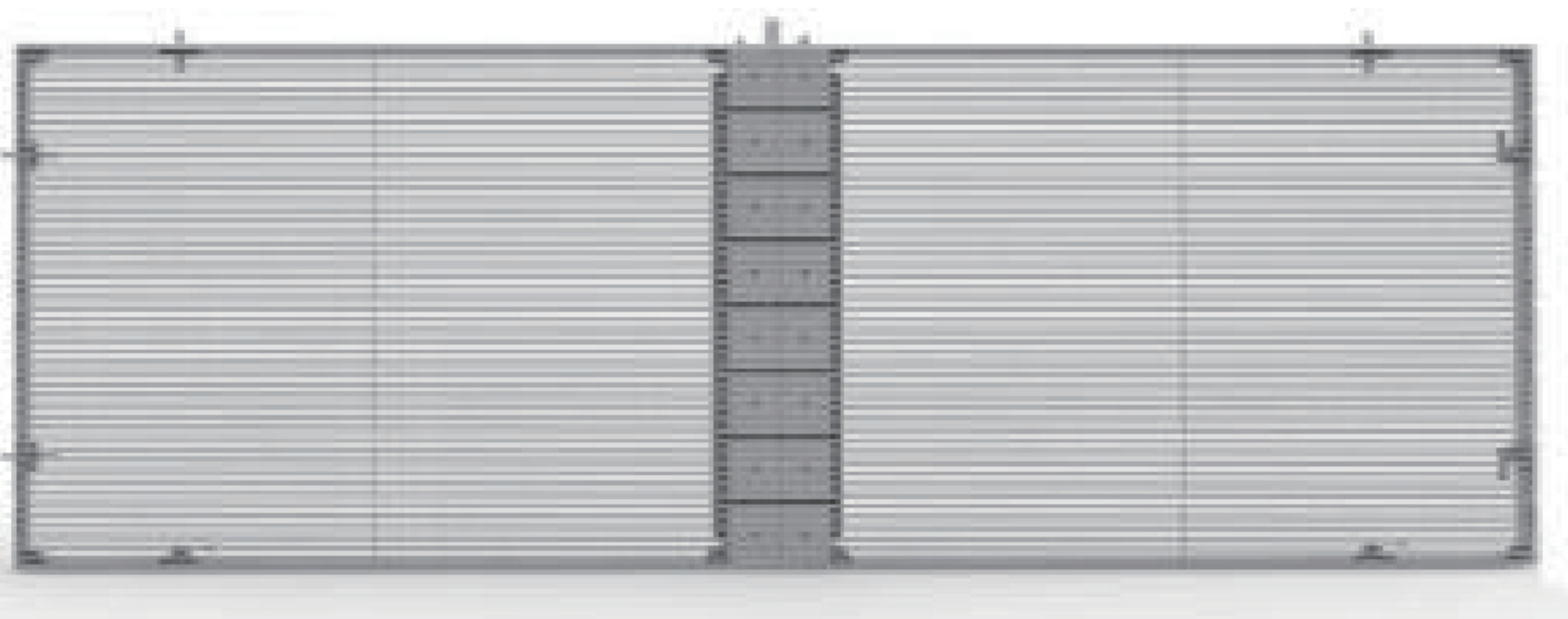
Side light transparent
screen products

A



Transparent screen
display module

B



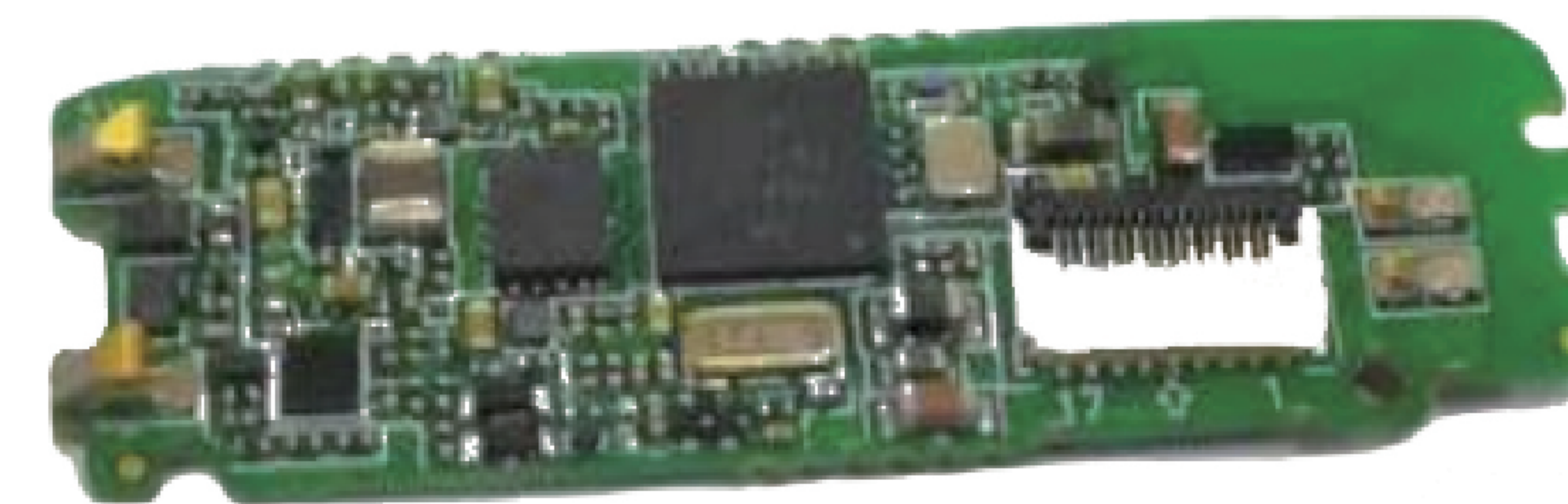
Curved screen
(flexible PCB board)

C

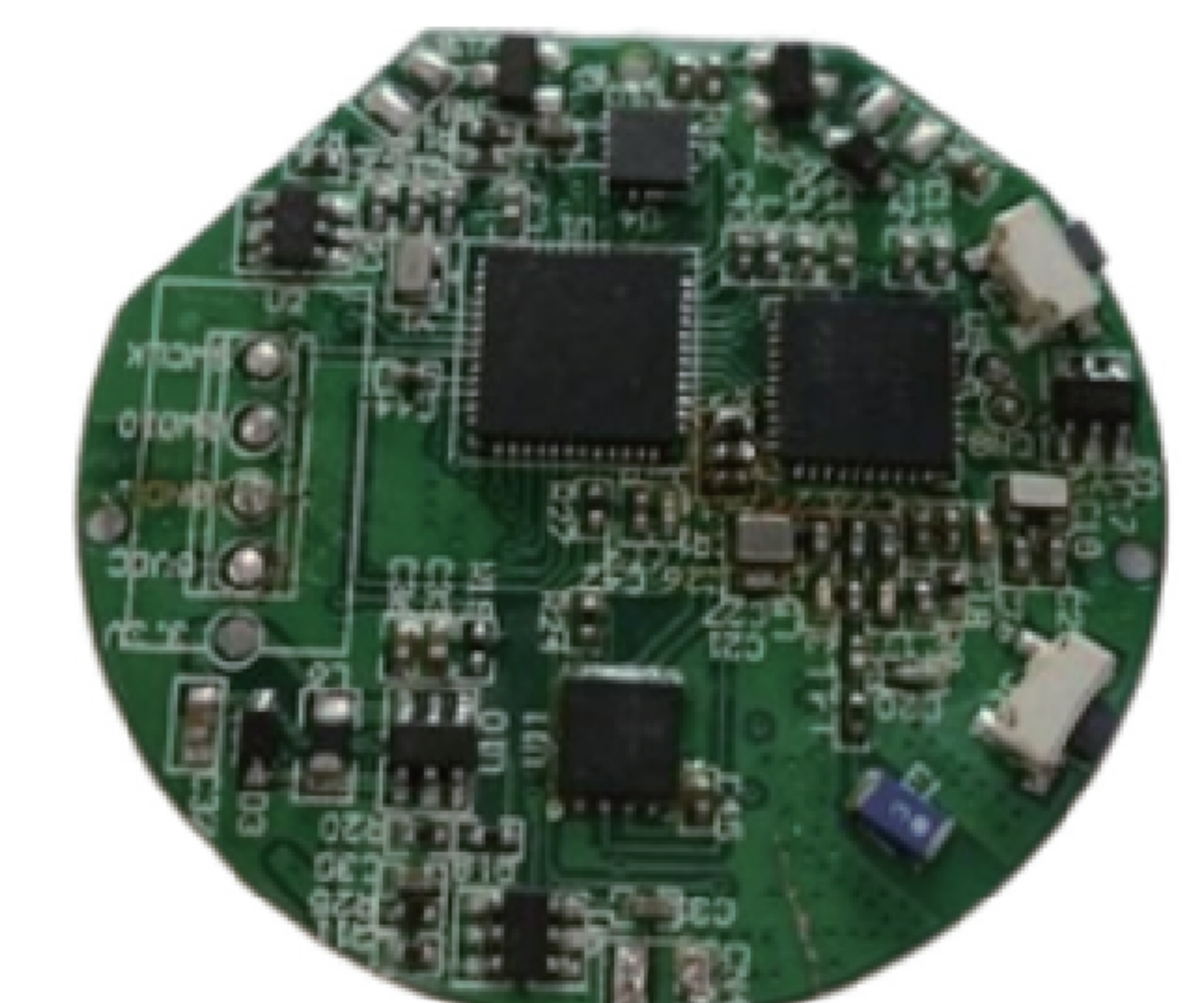
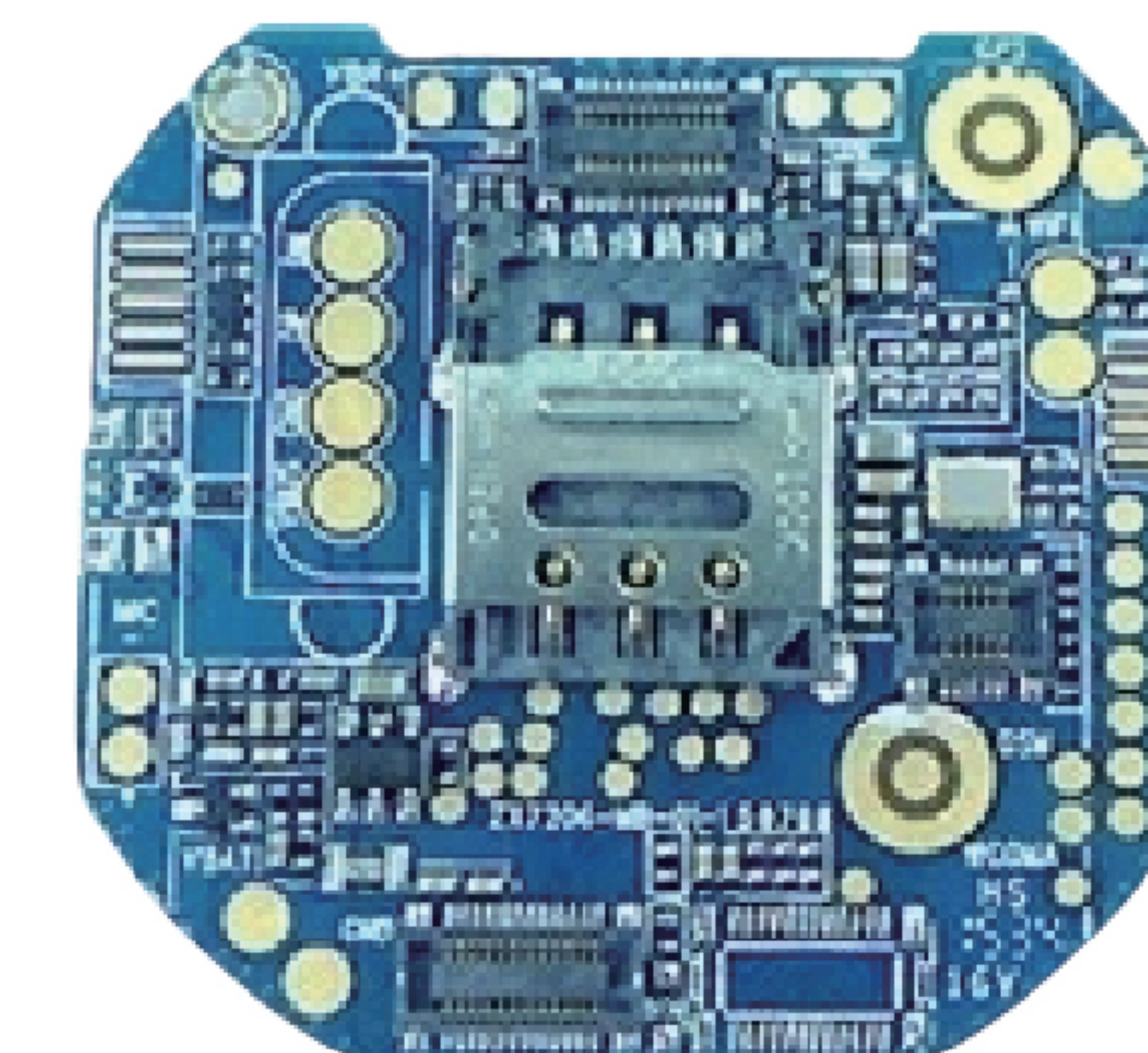
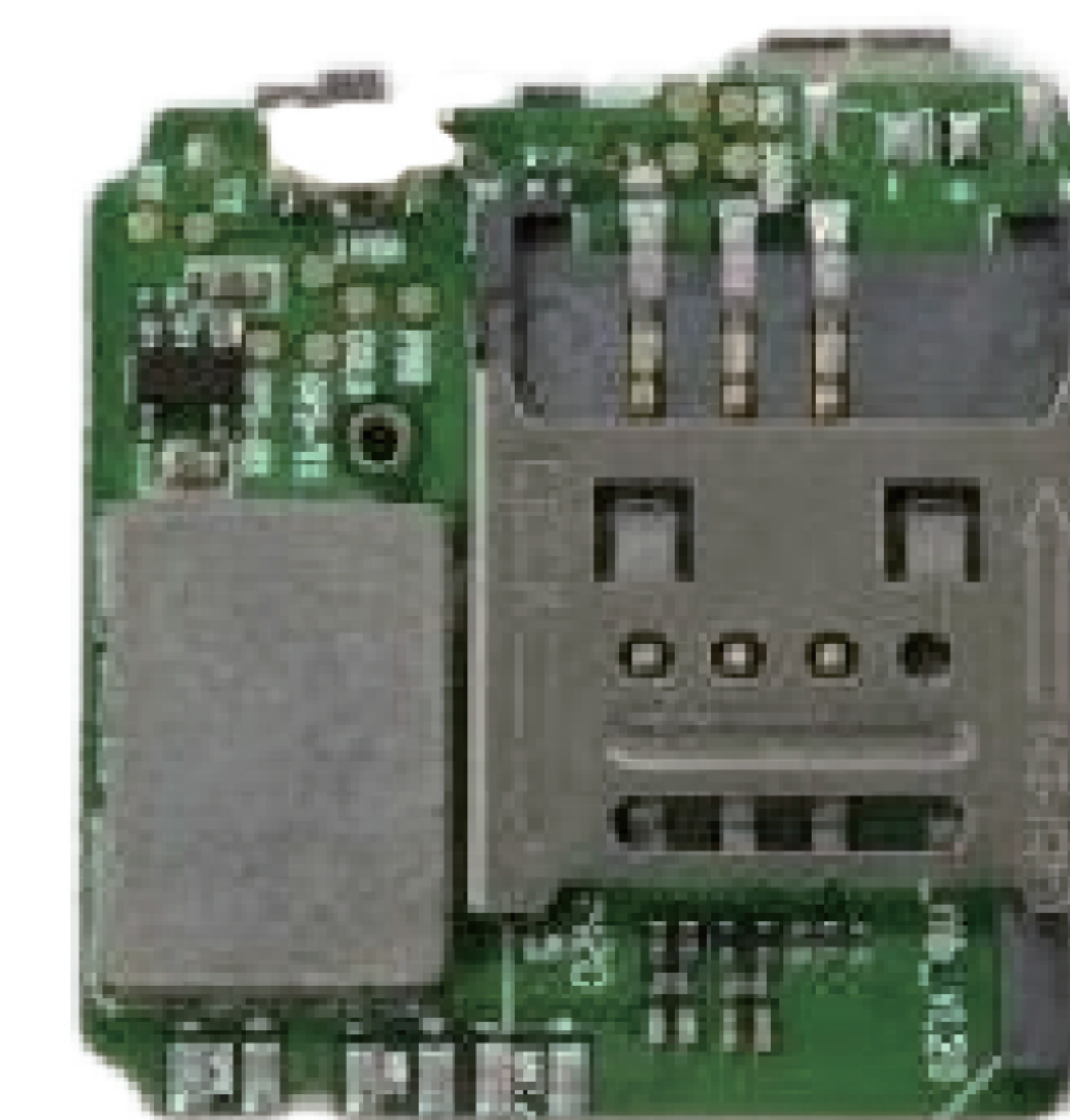


Smart wearable products display

Smart wristband



Smart watch



GOB process introduction

1.What is GOB

A technological improvement and extension of the traditional SMD display module technology. That is, in the final process after SMT placement and aging, an epoxy resin is applied to the surface of the module as a whole to achieve anti-collision of the module instead of the traditional mask technology Performance upgrade.

2.GOB advantage

High reliability:

Super transparent, high thermal conductivity epoxy resin as the filling material, to achieve moisture proof, salt spray proof,and dust proof for more kinds of harsh environment.

Sharp display effect:

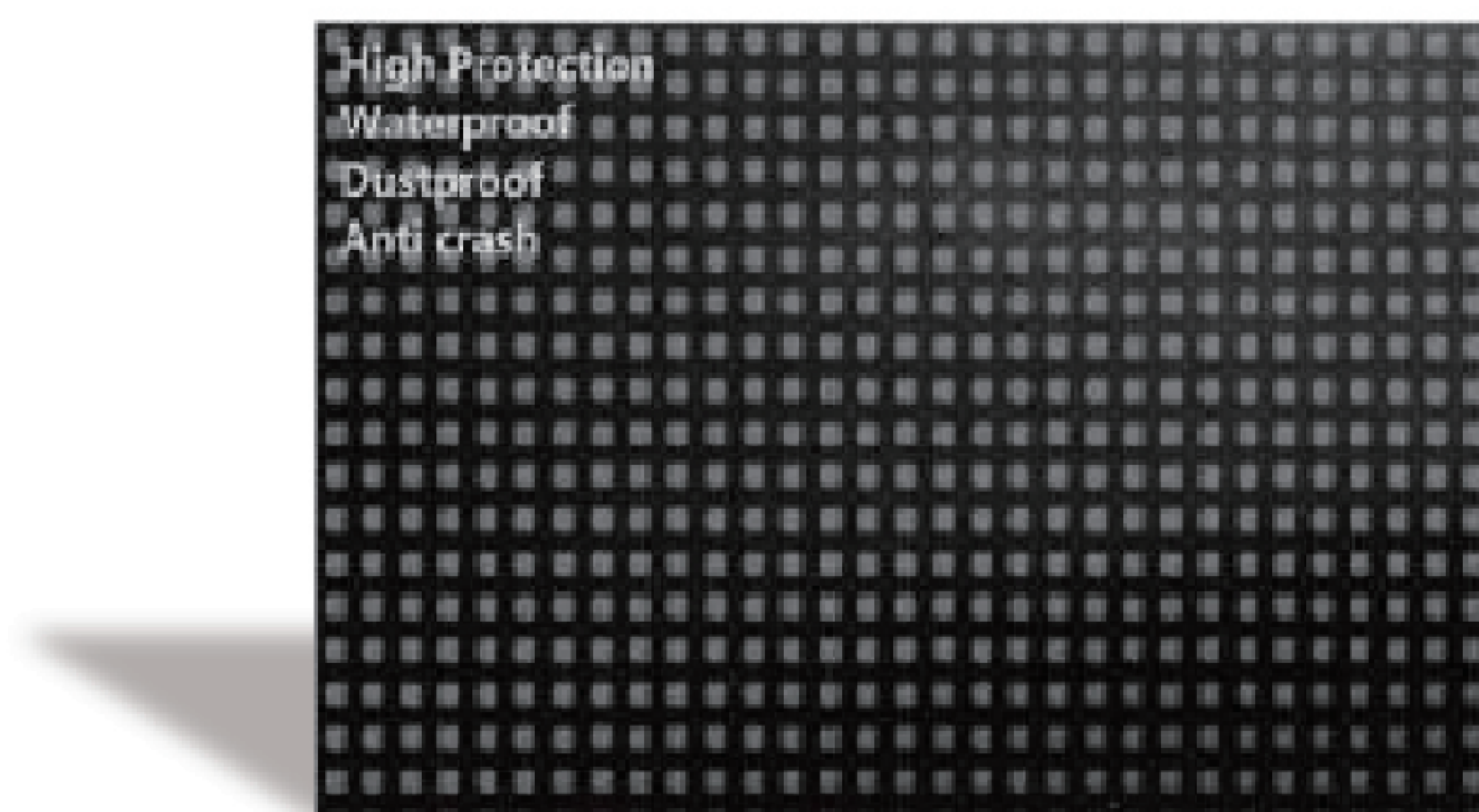
The module is manufactured and tested in the traditional way to avoid the defects of color difference and moire pattern and to obtain good color uniformity.

Low cost:

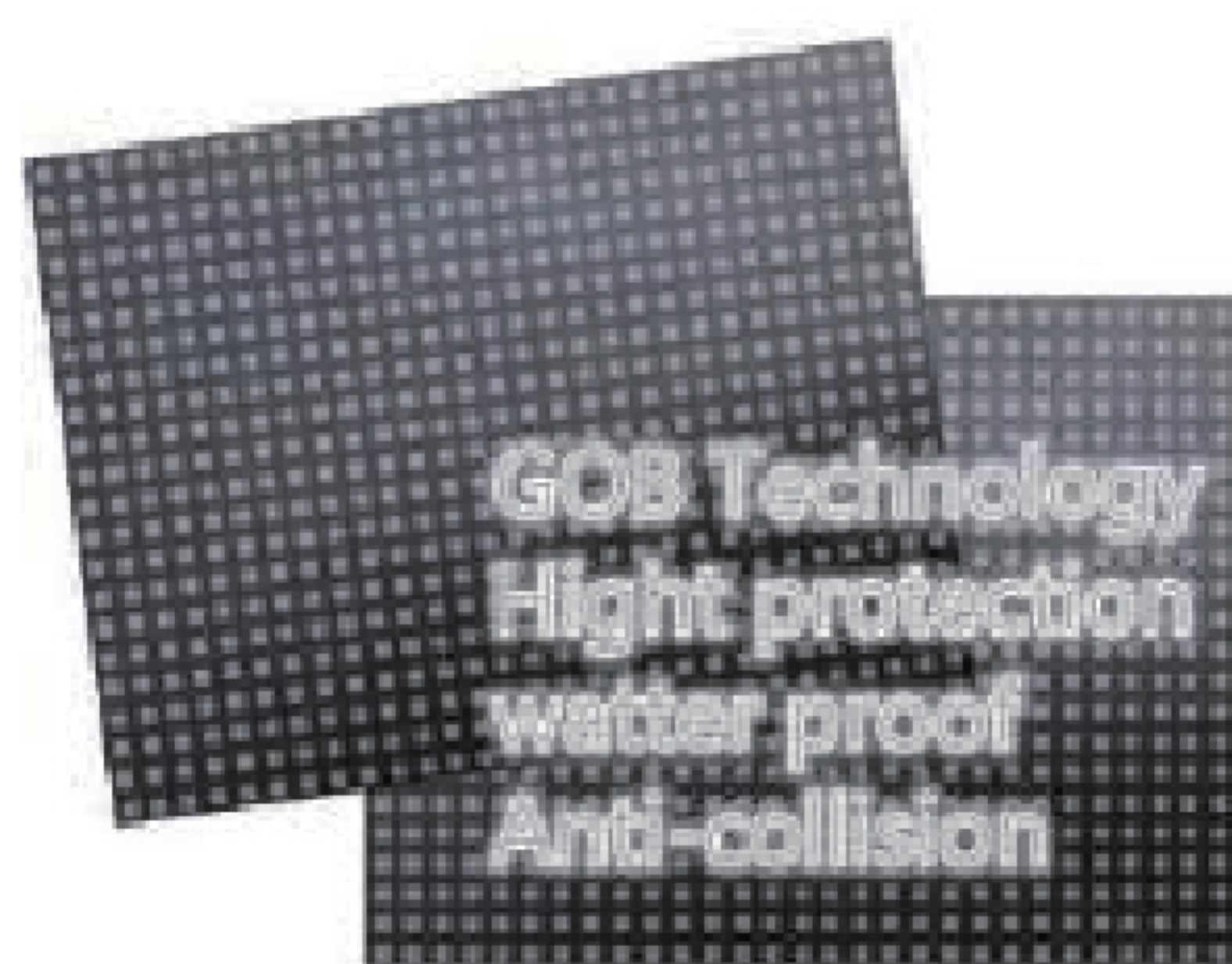
Fewer processes of material composition, fewer materials required, and theoretically lower manufacturing costs.

GOB process module display

GOB process module package



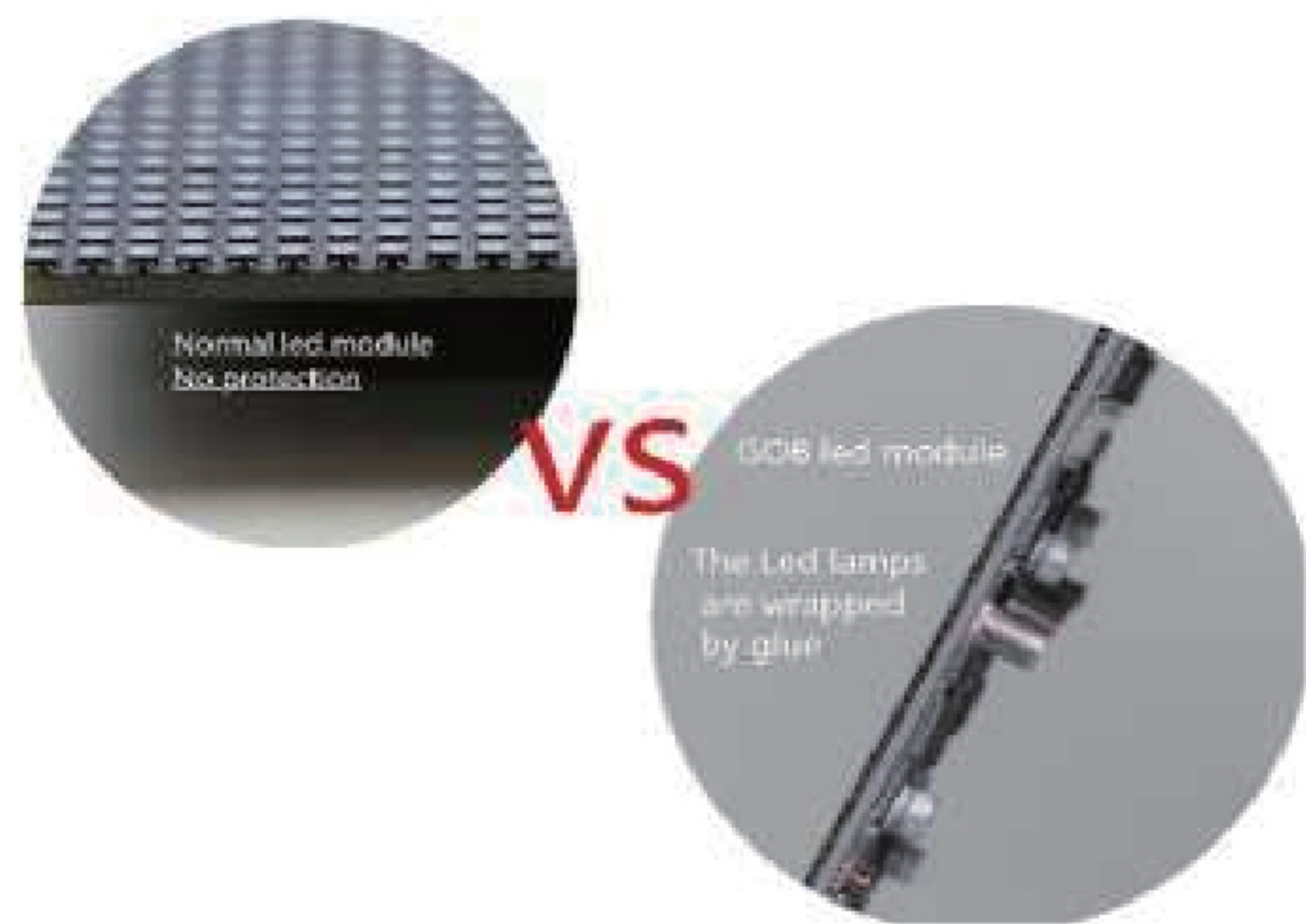
GOB High protection



Comparison of GOB modules with traditional modules

Classify	Ink consistency	Color consistency	Bump-proof	Reliability	After repair	Splicing processing	Price	Mass productionfeasib
GOB	Excellent ✓	Excellent ✓	Excellent ✓	Excellent ✓	Medium 0	Excellent ✓	Excellent ✓	Medium 0
IMD	Excellent ✓	Excellent ✓	Excellent ✓	Medium 0	Excellent ✓	Excellent ✓	Excellent ✓	Medium 0
COB	Medium 0	Inferior X	Excellent ✓	Excellent ✓	Inferior X	Inferior X	Inferior X	Medium 0

Comparison between traditional modules and GOB



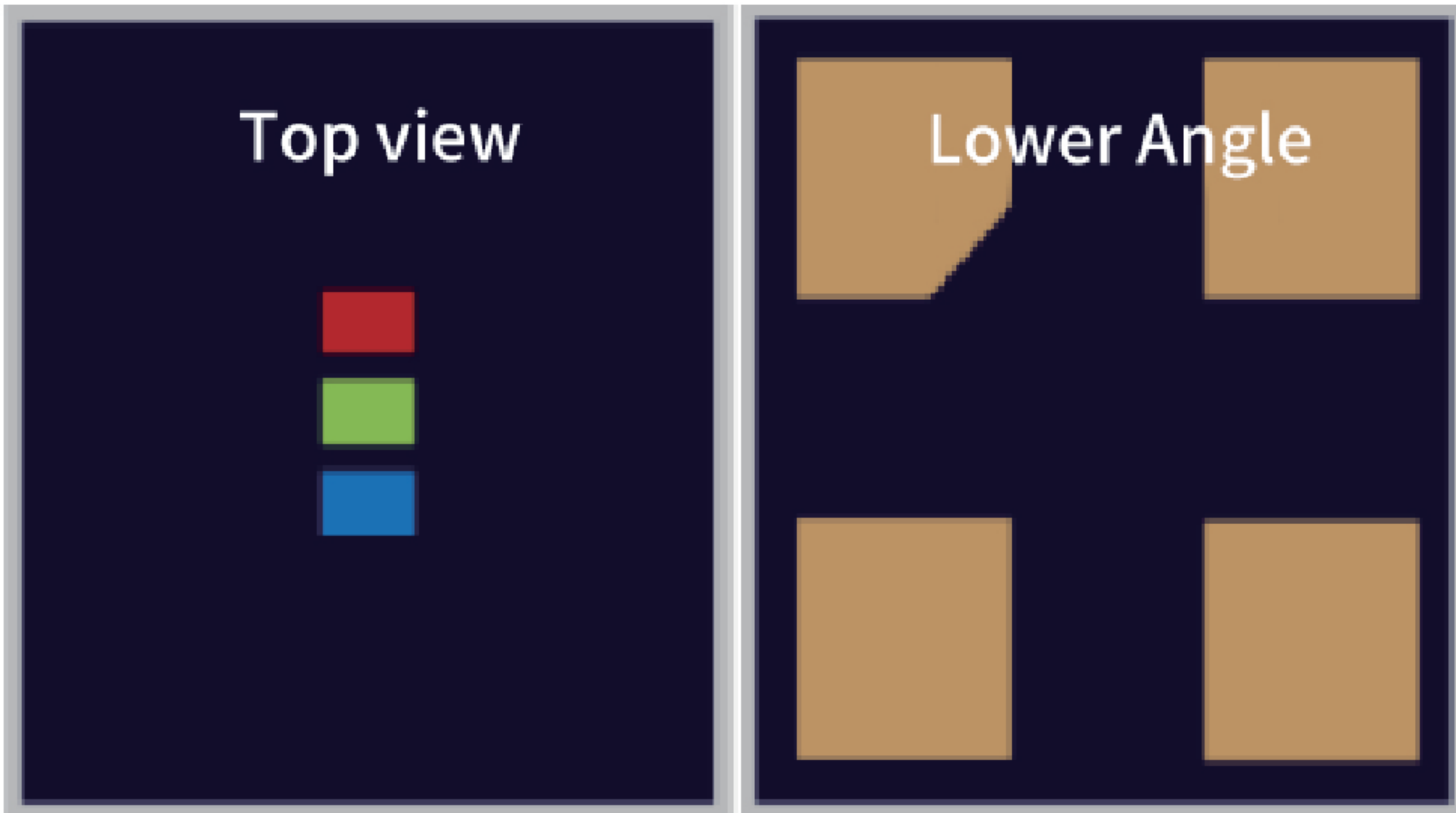
MIP Series Poducts

MIP (Micro LED in Package) is a new type of Micro packaging technology, with self-developed ink multi-layer packaging process, with ultra-high contrast, ink consistency, high reliability, surface light source, no glare, cold screen more energy saving, LED Lights mixing, high uniformity, no Mura effect, more delicate picturequality.

Series	MIP	
Pixel pitch (mm)	0.93	1.25
Cabinet size(mm)	600*337.5	600*337.5
Module size (mm)	168.75*150	168.75*150
Contrast	25000:1	20000:1
luminance	900cd/m²	800cd/m²
Colour Temperature	6500K/9000K	6500K/9000K
Scanning mode	1/30	1/27
Power dissipation(㎡)	250W ±10%	250W ±10%
Cabinet material	Die cast aluminum	Aluminium alloy
Cabinet weight	4.4 ±10% Kg	5 ±10% Kg
Cabinet resolution	640*360	480*270
Number of modules/Cabinet	8/1	
Working environment	Temperature:-10°C~+40C; humidness 15%~90%RH	
Reliability experiment	+85°C(85%RH)/-20C	
Input video signal interfac	DVI/HDMI/DP	
Display system	Colorlight LEDvision/NovaLCT	

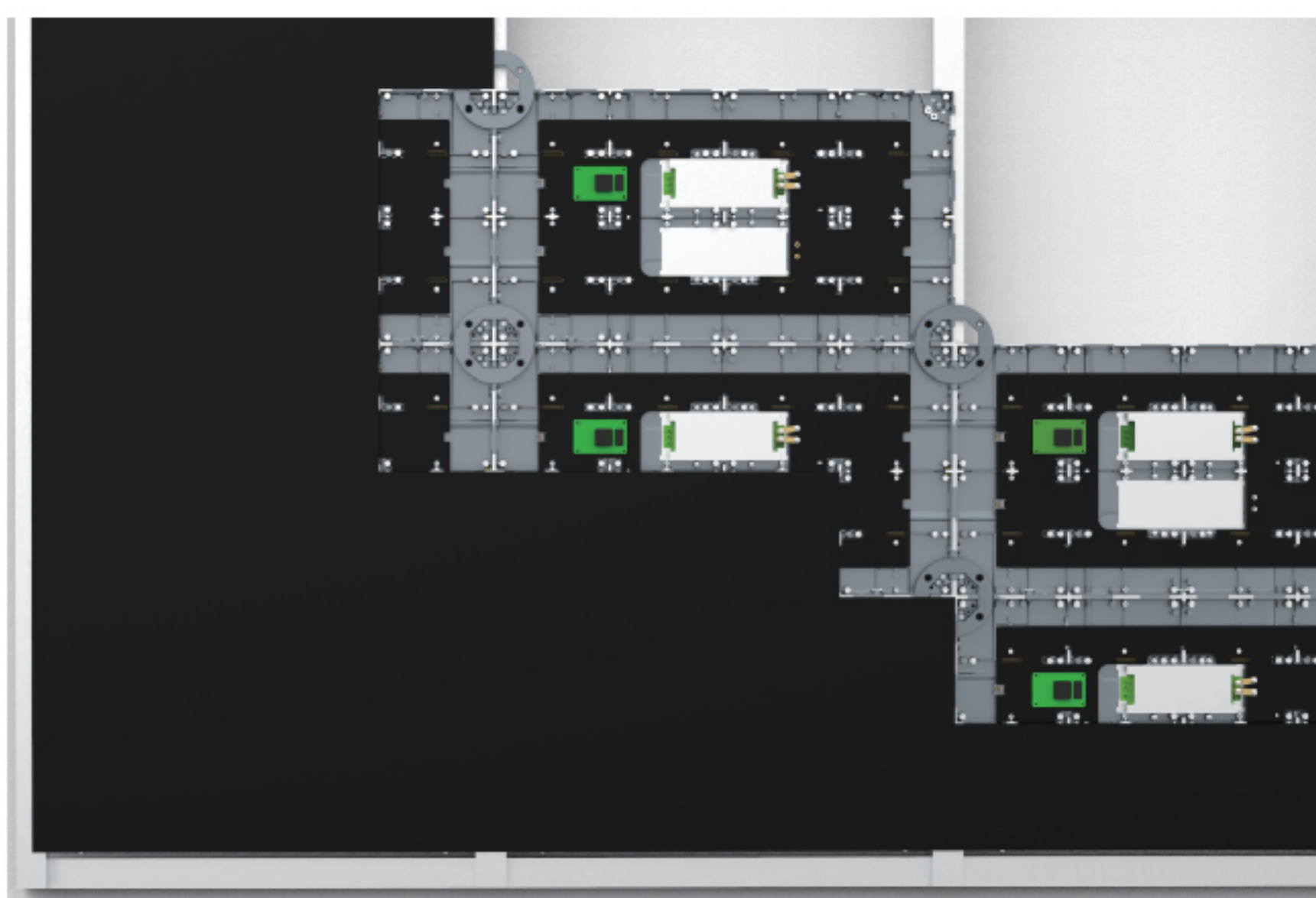


Miscible light, high uniformity
There was no Mura effect



COB Series Products

Flip Chip on Board, Ultra small Pixel Pitch, high reliability, surface light source, no glare, cold screen, more energysaving, chip level package, better display effect, Perfect Close-up view experience.



Self-developed COB technology, Ultimate Display, ultra-thin integrated aesthetic design, Perfect module bonding.

Using self-developed technology to achieve consistency of ink color and brightness; to eliminate color difference; Fine-tune screen colors to match the standard gamut.

Ultra-thin integrated design, high screen ratio; Let the eyes focus on the screen, more immersive and comfortable viewing experience.



Flip Chip COB technology, chip-level package, ultra-wide color gamut, accurate restoration from natural primary color

Effectively reduce moire lines: surface light source, reduce glare , effectively resist blue light damage, reduce light visual fatigue, can be taken in camera or camcorder high-definition video or photos.

Super wide color gamut, display more rich colors, make the color transition more natural, full color, detailed real.

Series	COB		
Pixel pitch (mm)	0.93	1.25	1.56
Cabinet size(mm)	600*337.5	600*337.5	600*337.5
Module size (mm)	168.75*150	168.75*150	168.75*150
Contrast	25000:1	20000:1	20000:1
luminance	900 cd/m²	1300cd/m²	1300cd/m²
Colour Temperature	6500K/9000K	6500K/9000K	6500K/9000K
Scanning mode	1/36	1/45	1/54
Power dissipation(㎡)	250W ± 10%	250W ± 10%	250W ± 10%
Cabinet material	Aluminium alloy	Die cast aluminum	Die cast aluminum
Cabinet weight	5 ± 10% Kg	4.4 ± 10% Kg	4.4 ± 10% Kg
Cabinet resolution	640*360	480*270	384*216
Number of modules/Cabinet	8/1		
Working environment	Temperature:-10°C~+40C; humidness15%~90%RH		
Reliability experiment	+85°C(85%RH)/-20C		
Input video signal interfac	DVI/HDMI/DP		
Display system	Colorlight LEDvision/ NovaLCT		

Wide application scenarios

Products are widely used in private theaters, lecture halls, meeting rooms, concert halls, XR virtual shooting, data centers and other scenes; Based on leading technologies such as COB packaging and calibration, it integrates edge technologies such as AI, AR/VR/MR, 5G, 8K, Internet of Things, and cloud computing to lay out a new display ecology.

Module inkjet process

Disadvantages of covering masks:



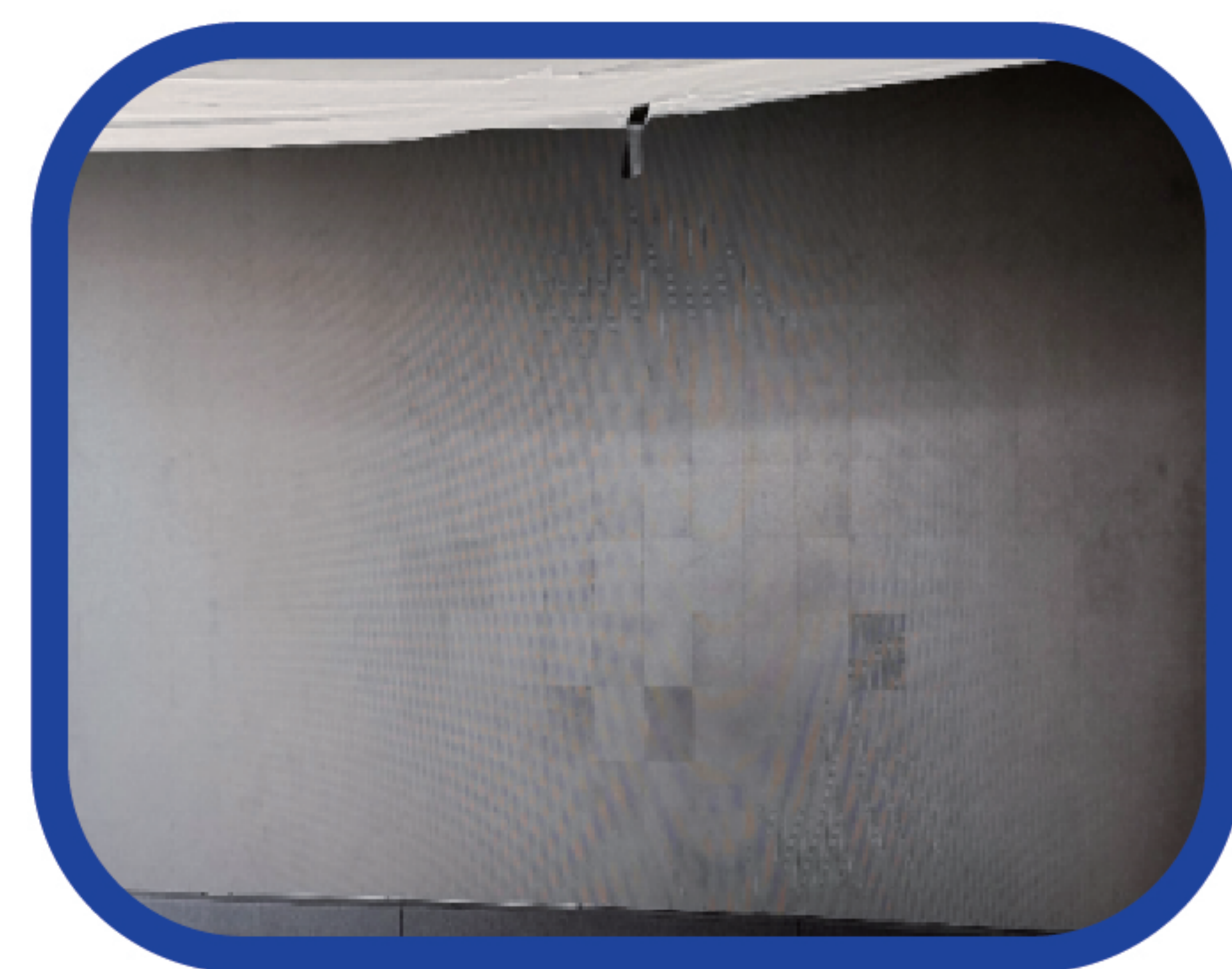
Normally Protective Mask was used for dust-proof, water proof and other protection. but the protective mask have some problems; For example, the cost is high, the production efficiency is low, the operation is inconvenient, and the maintenance is difficult.

Advantages of using inkjet process:



Simplifying the production process can also improve product quality and reduce production costs; Fully automated production, the weight of the ink is controllable to ensure the consistency of the product, darkness If faulty soldering/dead light appears, it can be repaired directly with RoHS compliant ink, do not need to remove masks.

Pre-inkjet



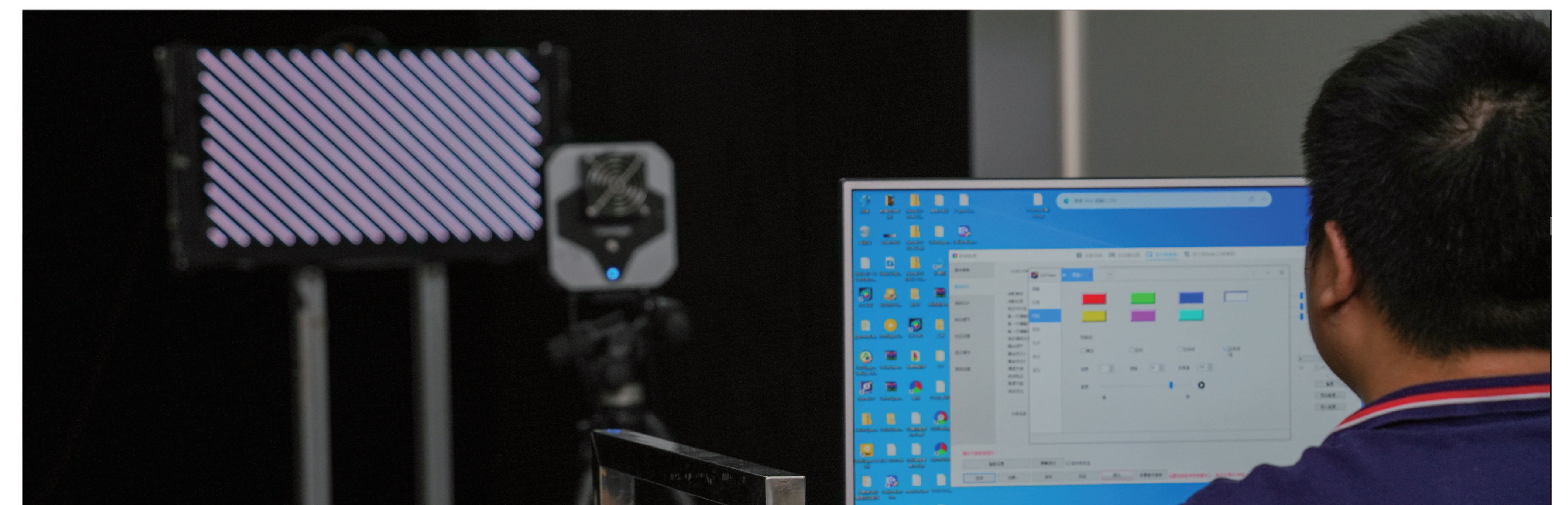
Post-inkjet



VS

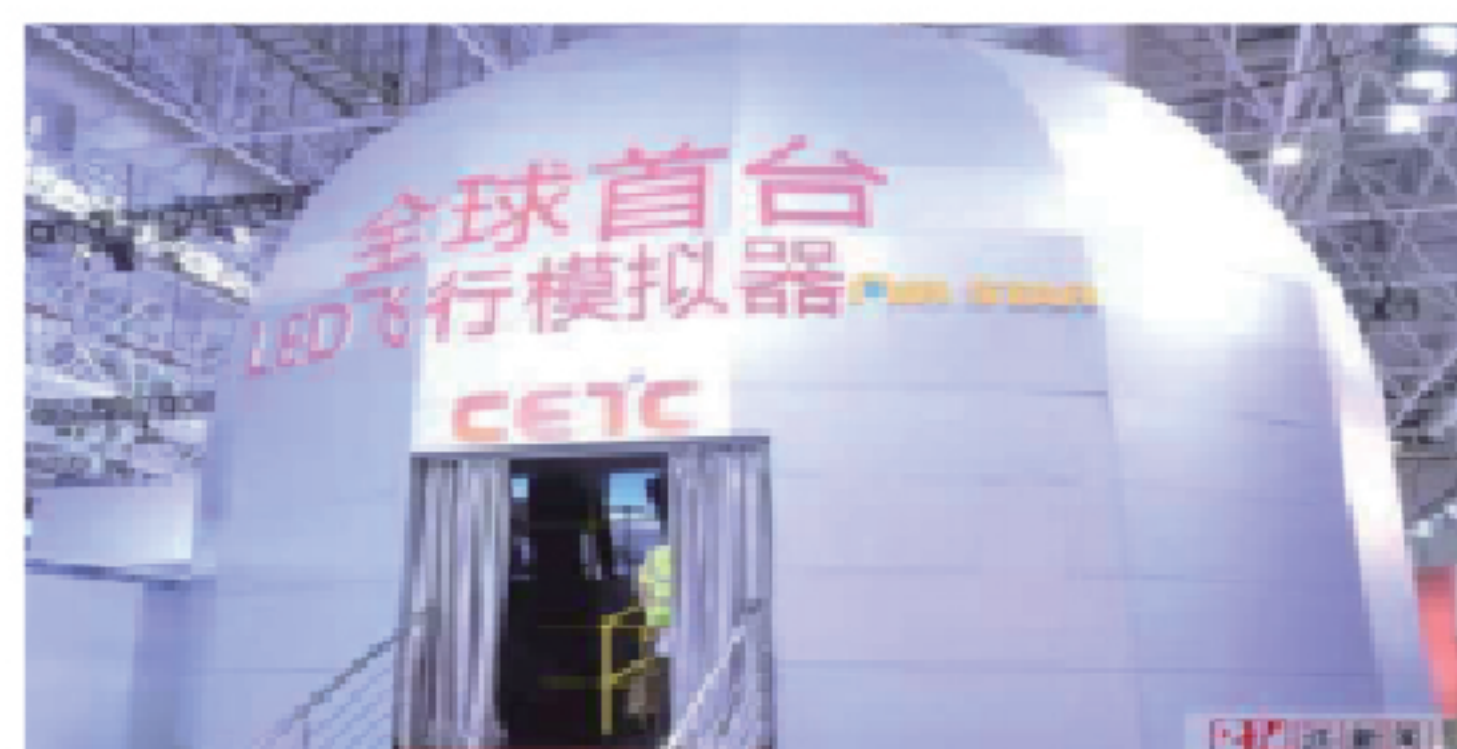
PART 3

Product Application case

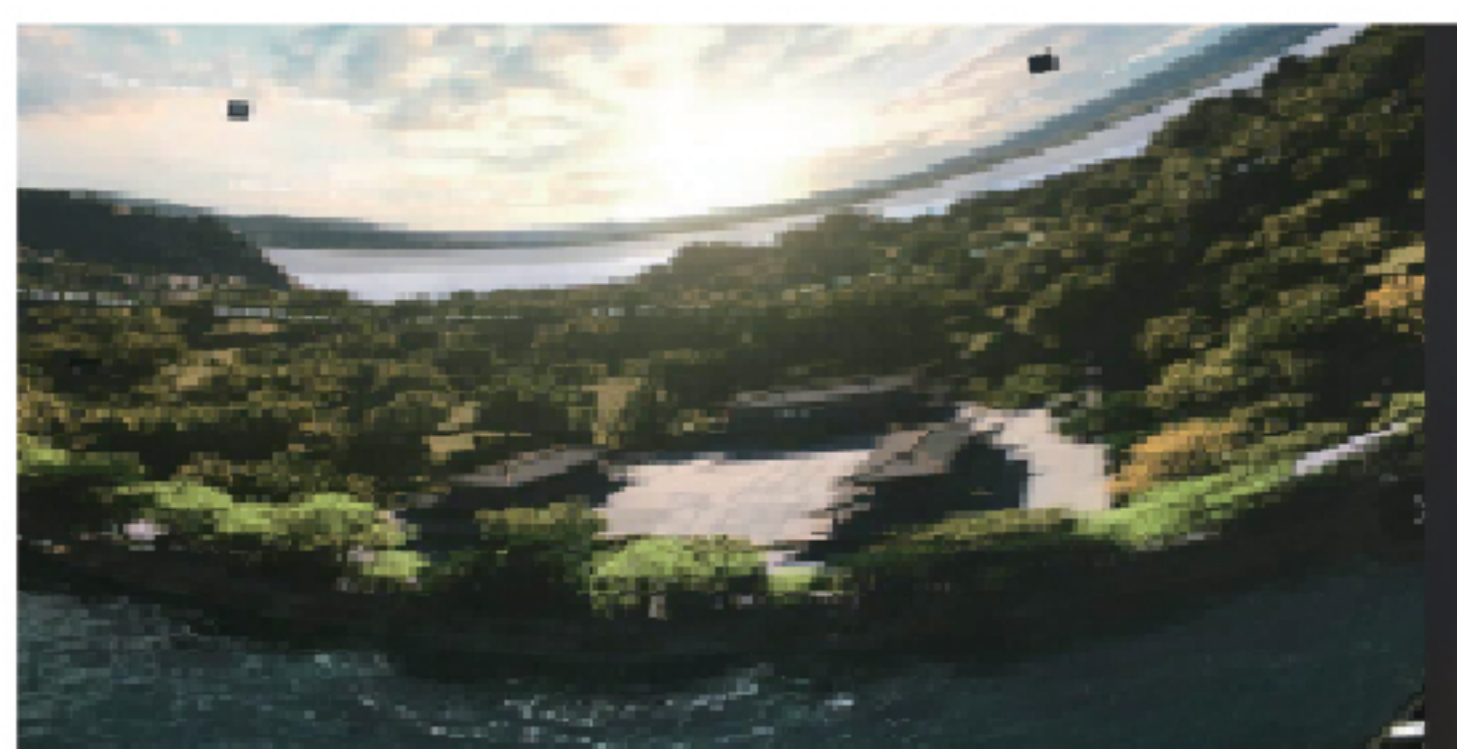


Product application cases

The world's first panoramic
LED flight simulator



Guangzhou Wanda
Plaza dome screen



An exhibition hall in Zhejiang
Wall screen + curved bottom screen



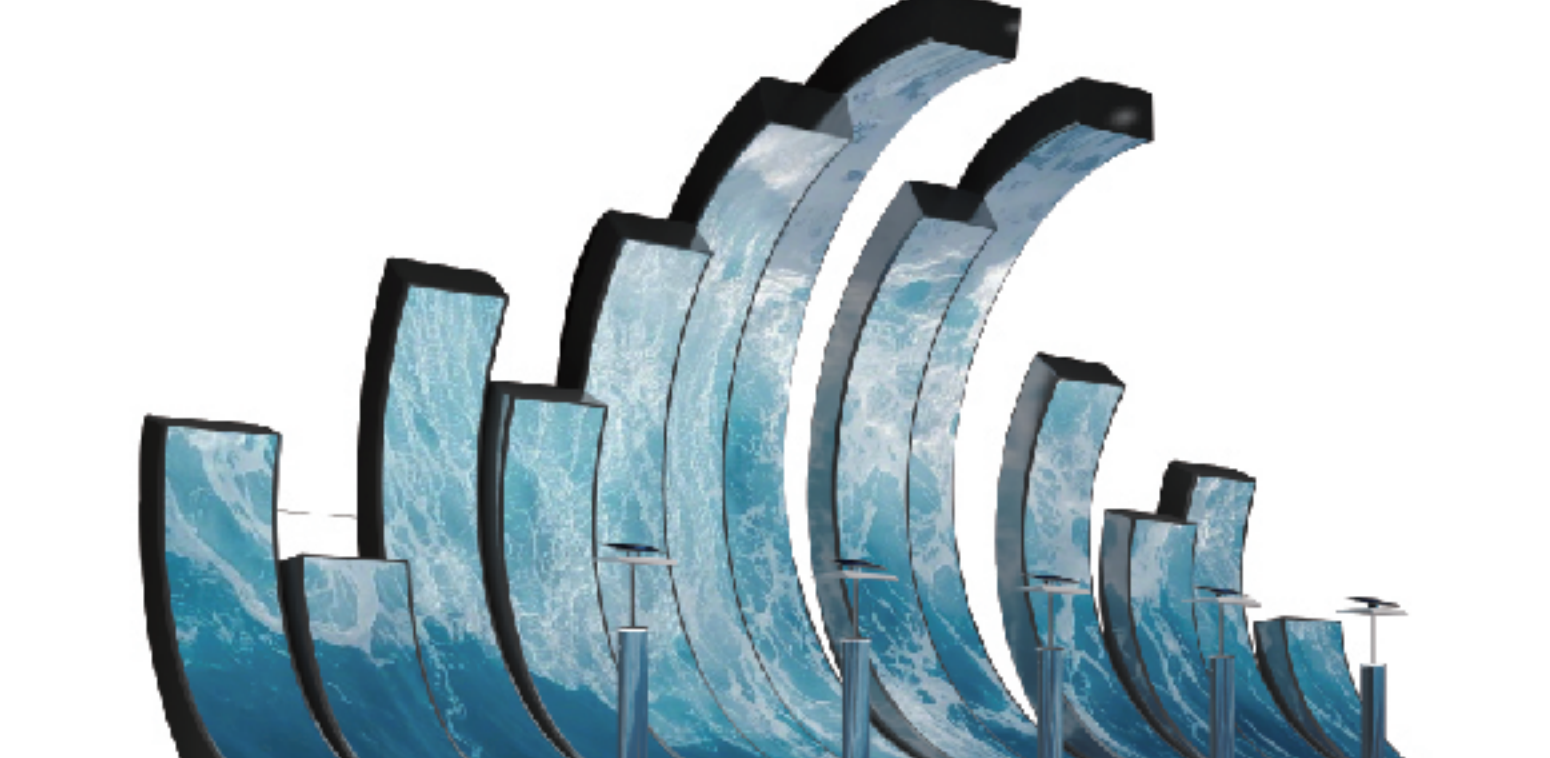
National Ministry of
Culture LED display



A TV screen in the Middle East



Commercial center curved display



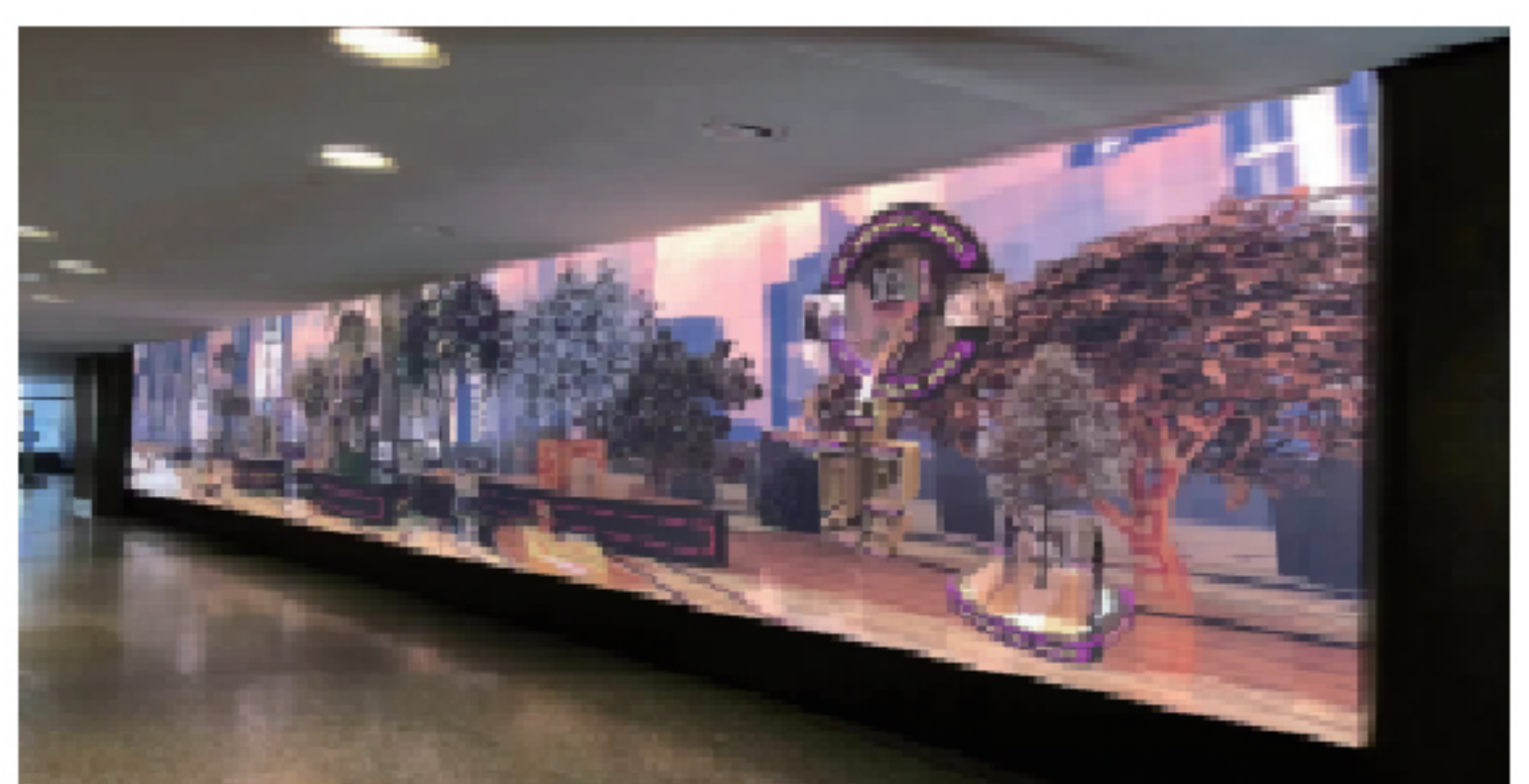
Zhejiang a big data monitoring center
Supports super 8K video playback



A brand conference machine



Micio LED display



PART 4 Production Workshop



Production Workshop

SMT



COB



White balance
debugging



Testing



Assembling



Aging



Full screen
correction



Product
transportation



Provide professional process solutions

Provide SMT-COB-GOB- testing - product assembly -
aging - packaging one-stop service

PART 5 Awards & Qualifications



Awards & Qualifications

National hihtech enterprises.

The company has passed ISO9001:2015 quality management system certification.

There are more than 20 patented inventions and utility model patents.

CCC, energy saving, ETL, CE and other certification enterprises.

Won the customer "excellent supplier" award for many years.



6

PART

Customers & Corporate Vision



Customers



Corporate culture

Vision

Through unremitting efforts, the company is committed to becoming a professional Mini & Micro LED display module manufacturer.



Mission

Establish a mutually beneficial and sustainable industrial chain with customers and partners to maximize the value of the company.



Quality control

Quality first, customer first, sound management, continuous improvement.



Philosophy

Fast and active response, accurate and timely delivery, continuous and innovative technology competitive cost, fair and harmonious environment.

