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2024

Unilumin UMini Introduction

UMiniIII

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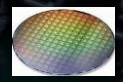
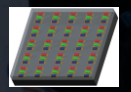
Mini LED Technology



Mini level chip size

RGB Flip-chip technology



COB packaging technology

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Market Trends

Mini, the new Max

LED Fine Pitch Display Market Share

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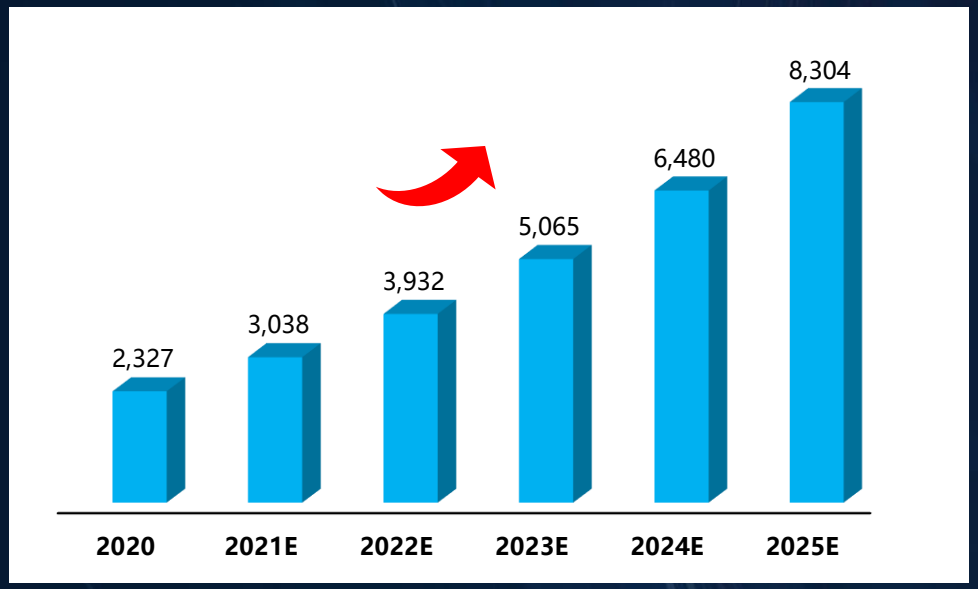
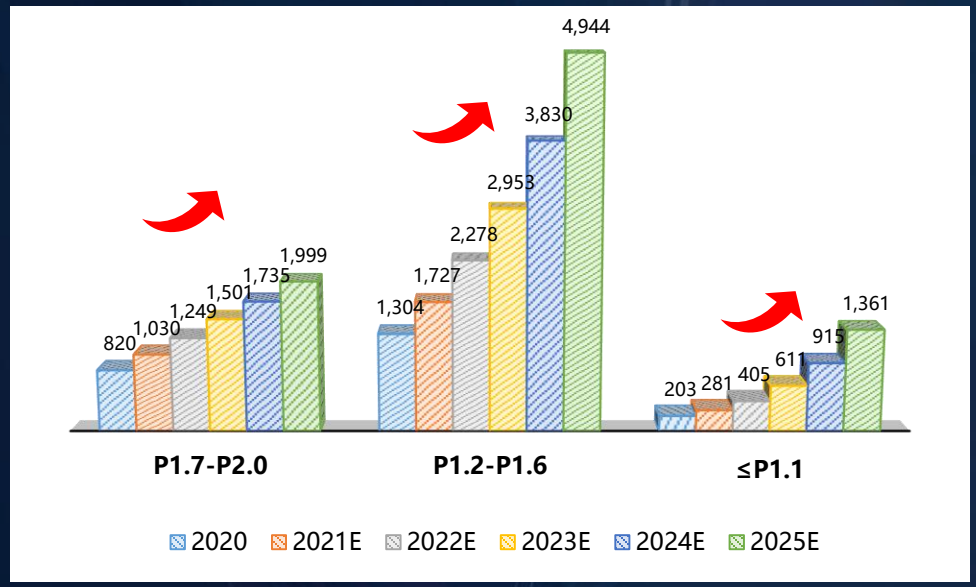
P1.2-P1.6 pitch display is the main growth point, and gradually develops in the direction of P≤1.1 ultra-fine pitch

Global LED Fine Pitch Display Market size



Fine Pitch Display Market Size



- In 2022, the global LED fine pitch (≤P2.0) market size is US$3.9 billion, and it is expected to reach US$8.3 billion by 2025, with a CAGR of 29% from 2020 to 2025;
- By 2025, the largest growth in the LED fine pitch display market will mainly come from P1.2-P1.6 pitch displays, and maintain the largest market share. From 2022 to 2025, P1.2-P1.6 pitch displays CAGR It is 31%, and its proportion has increased from 58% to 60%; P≤1.1 ultra-fine pitch display has the fastest growth, with a CAGR of 46%; while P1.7-P2.0 pitch display has the slowest growth, with a CAGR of 20% , the proportion also dropped from 32% to 24%.

P≤1.1 Pitch LED Display Applications

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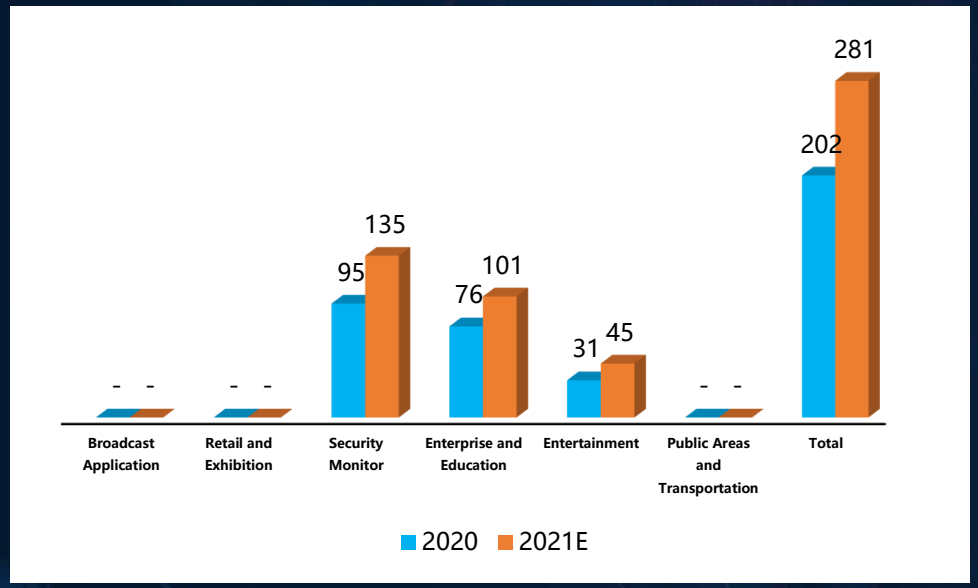
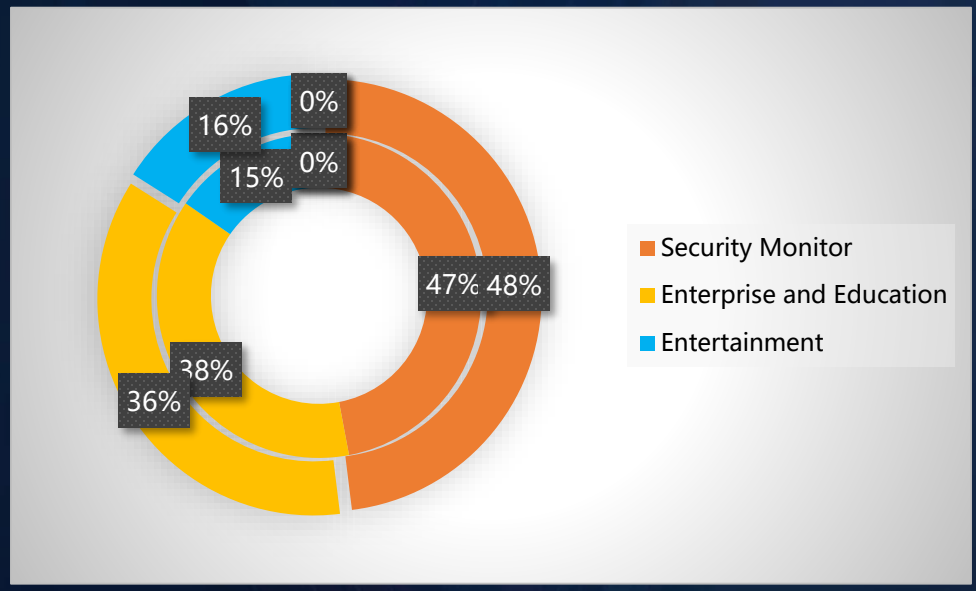
Security monitoring is the main application scenario for P≤1.1 pitch displays, accounting for nearly 50% of the total, followed by enterprise and education scenarios, accounting for 36%

P≤1.1 Pitch Display Application Scale



P≤1.1 Pitch Display Application Proportion



- In 2021, the global P≤1.1 pitch display market size has reached 280 million US dollars, a year-on-year increase of 39%;
- From the perspective of application scenarios, P≤1.1 pitch displays are mainly used in security monitoring, enterprises and education. The scale of application scenarios is US$135 million and US$101 million, accounting for 48% and 36% of the market size of P≤1.1 pitch displays.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Impressive Display Effect
Mini, the new Max

1.1 Super High Contrast

UMini Ⅲ adopts Unilumin' s unique **EBL+(Enhance black level+) and multi-layer optical processing technology**, which can display the ultimate pure black contents with 20000:1 super high contrast

- Black Super black background
- 20000:1 Super high contrast*
- Super soft display
- Ultra-low moiré
- Ultra-low reflectance
- Ultra low touch trace

* : support

1.2 Ultra-high Consistency Effect

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Enhance Drive Level technology* fully guarantee the low grayscale, high uniformity of UMini Ⅲ in use

- Low temperature rise
- No flickering
- Low power consumption
- Ultra high consistency
- No high-contrast coupling issues

* : support

1.3 Image Quality Engine Technology

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3D-LUT color gamut calibration technology to achieve the display effect of DCI-P3 standard*;

* : support

1.4 5G Ultra-large Signal Transmission

Streamlined Hardware Equipment

Fast Data Transmission & Large Load Capacity

UMiniⅢadopts 5G ultra-large signal transmission design*, and the data transmission speed is four times faster than traditional LED display. In addition, its load capacity is larger and the hardware equipment is more streamlined which make UMiniⅢmore stable.

* : support

1.5 HD Dynamic Picture Quality Transmission

UMini Ⅲ supports high frame rate applications of 120Hz which makes the display content smoother*

* : support

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Comfortable Use Experience

Mini, the new Max

2.2 Human Eye Protection

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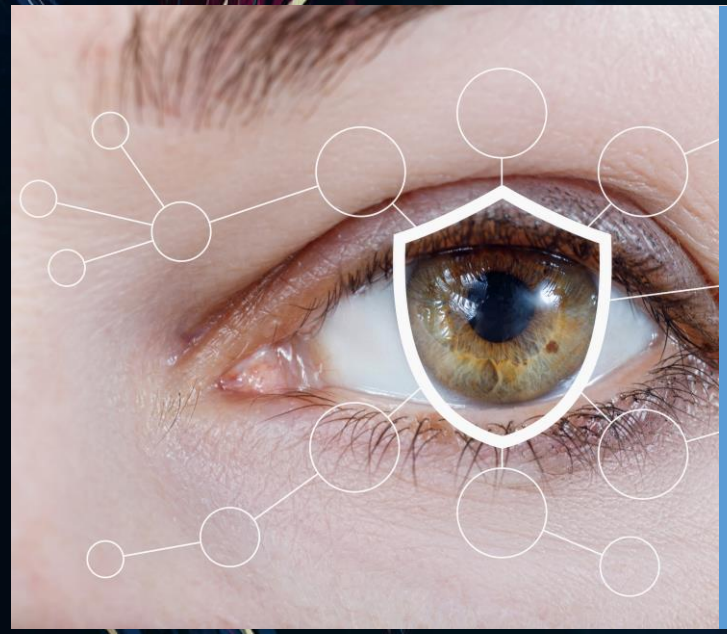
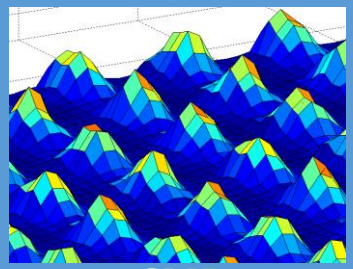
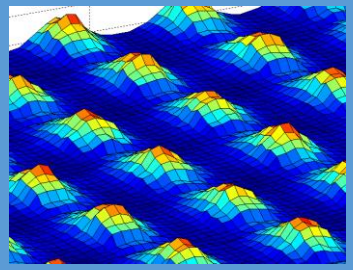




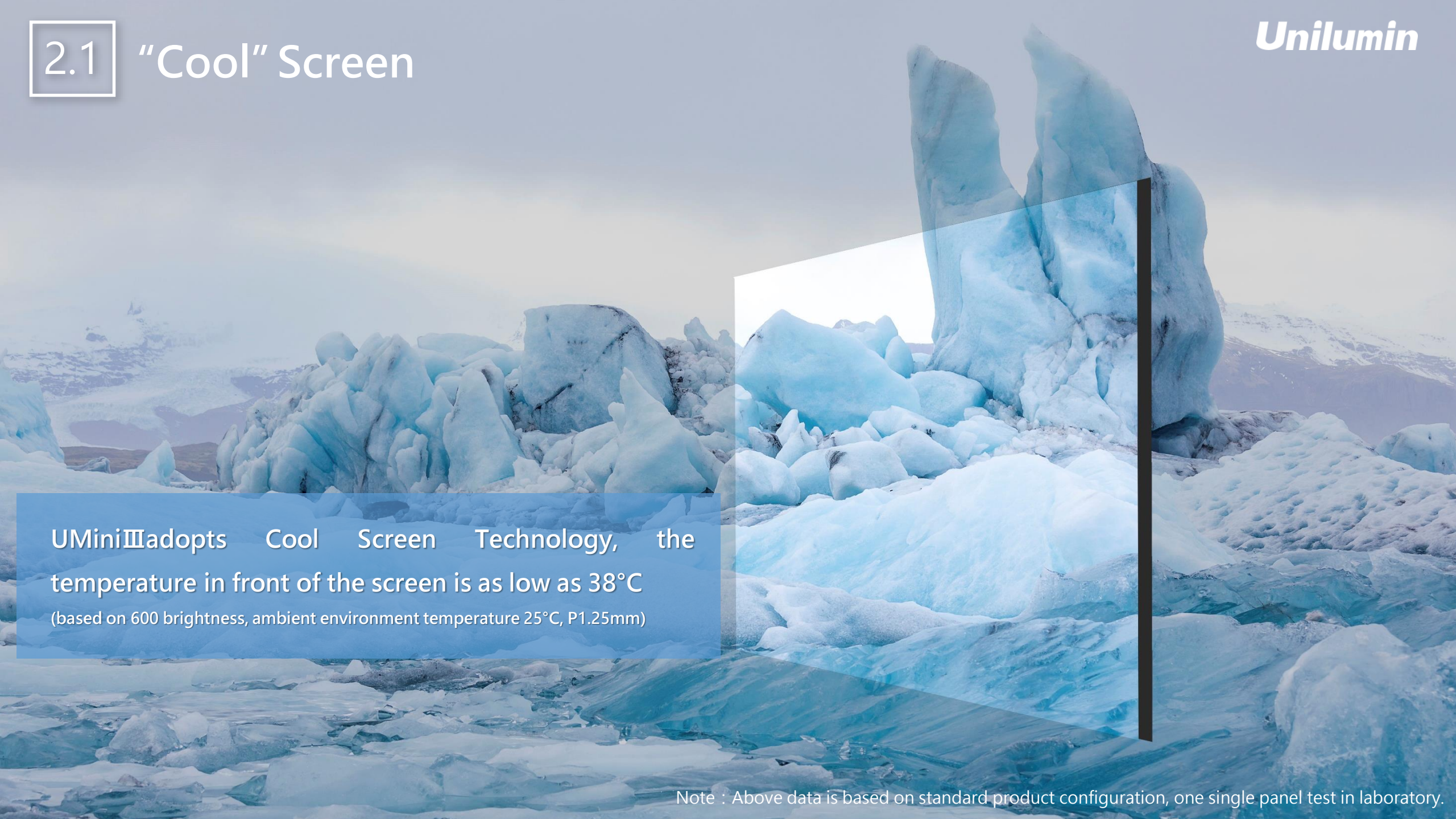
SMD



COB

UMini Ⅲ can effectively reduce blue ray hazards and filter out stray light effects, minimization health hazards caused by long-term use of the screen · protect the eyes to the greatest extent and make the viewing more comfortable.

2.1 “Cool” Screen



UMiniⅢadopts Cool Screen Technology, the temperature in front of the screen is as low as 38°C

(based on 600 brightness, ambient environment temperature 25°C, P1.25mm)

Note：Above data is based on standard product configuration, one single panel test in laboratory.

2.2 Human-friendly Experience

UMiniII has passed EMC class B, and the electromagnetic anti-interference ability has reached the consumer level

2.3 Secure Use Experience

UMiniⅢhas passed UL LISTED Certification which has a full range of security and stability guarantees

2.4 Ultra Slim and Light Design

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Weight: 6kg/cabinet, 35% lighter than UMini

Thickness: 40mm thick, 46% thinner than UMini

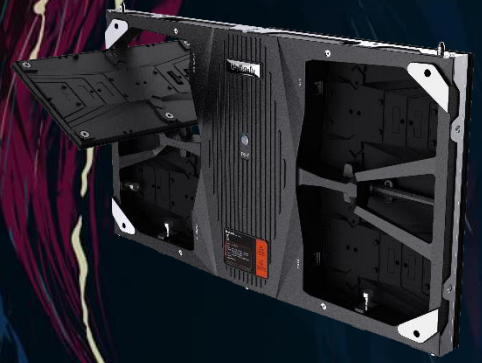
2.5 All-round Protection

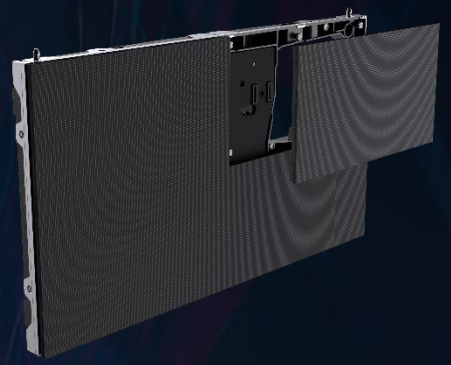
3H Protection

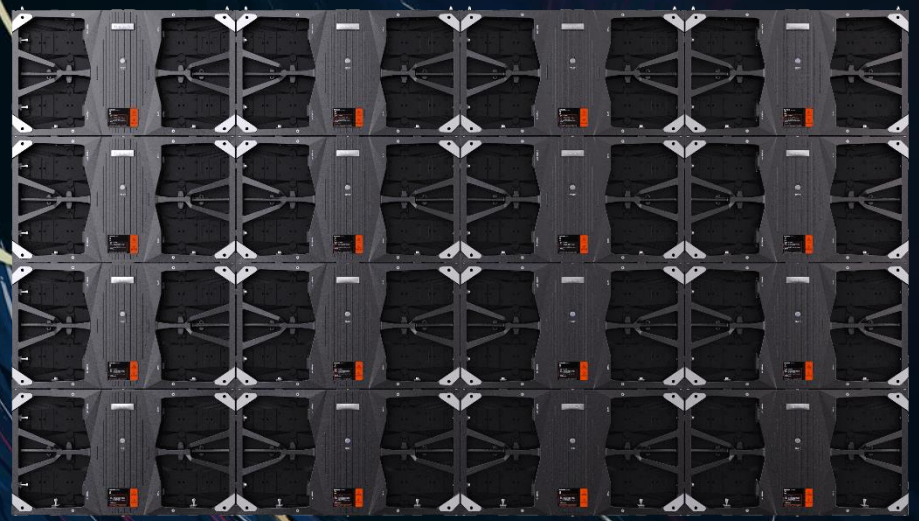
Dust-proof

Moisture-proof

2.6 Convenient Installation & Maintenance Design







- ✓ Front maintenance design: full front maintenance design of cabinet and module
- ✓ Module supports front/rear maintenance

2.7 Low Power Consumption

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UMini Ⅲ adopts the latest energy-saving technology, it can achieve maximum energy-saving effect whether in use or in standby

- RGB Flip Chip
- Dynamic Energy Saving
- Common Cathode Design
- One-click Sleep

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Specifications

Mini, the new Max

4 Specifications

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Parameter	UMini Ⅲ			
Pixel Pitch(mm)	0.93	1.17	1.25	1.56
LED Type	Fully Flip chip COB	Fully Flip chip COB	Fully Flip chip COB	Fully Flip chip COB
Pixels per panel	640X360	512X288	480X270	384X216
Material	Die-cast Aluminum			
Brightness(cd/m²)	600~1200			600
Viewing Angle(H/V)	0~180°			
Weight(kg)	6kg/panel			
Contrast Ratio	10000:1 - 20000 : 1			
Certificate	UL/FCC/IC/CE/CB/RoHS2.0/EAC/CCC/CQC/Low Blue Light/Class B			
Note: Specifications are for reference only and are subject to change without notice.				

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Applications

Mini, the new Max

High-end Applications

Exhibition Hall

Industrial Design

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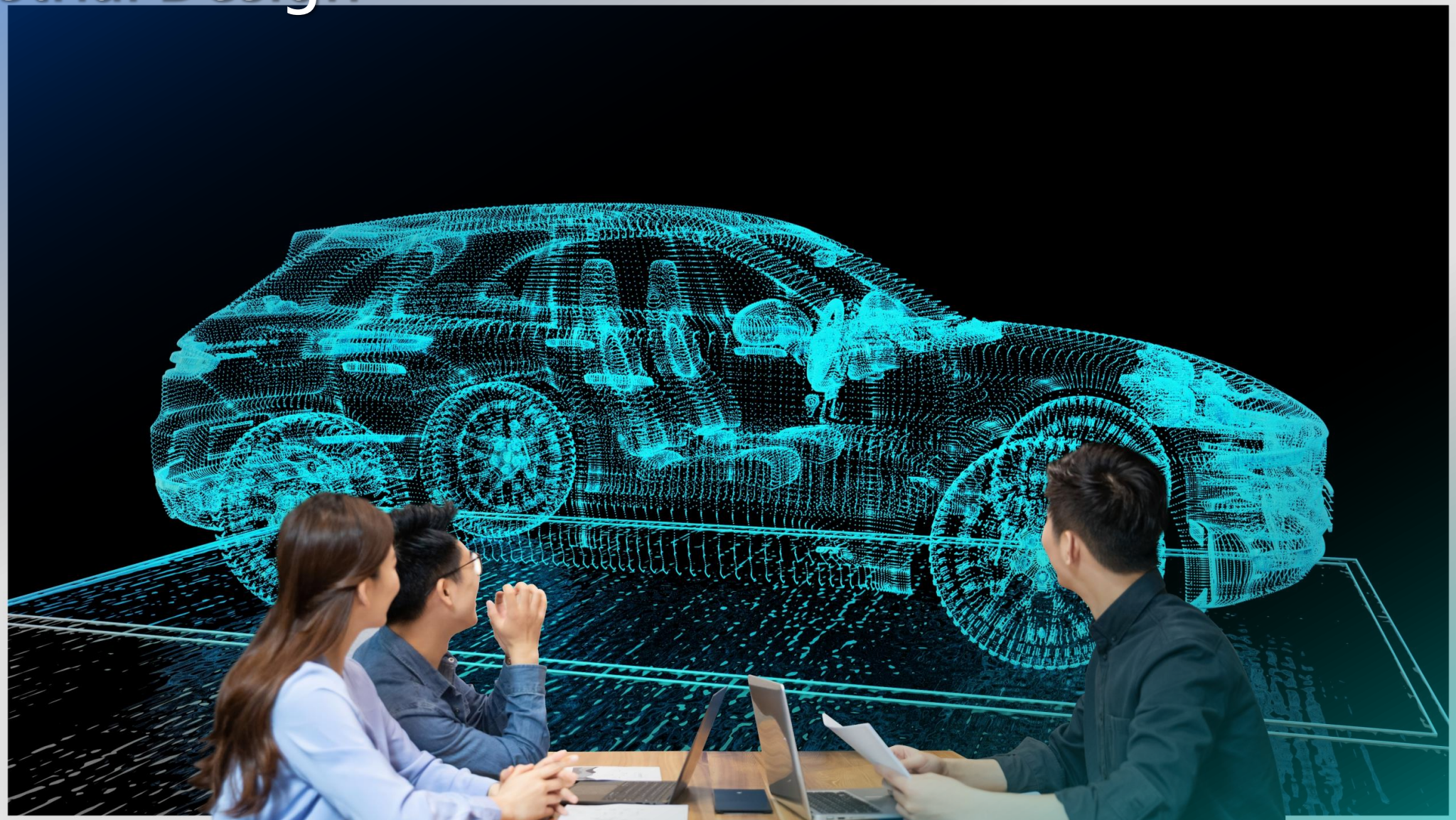

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