#### **Unilumin**

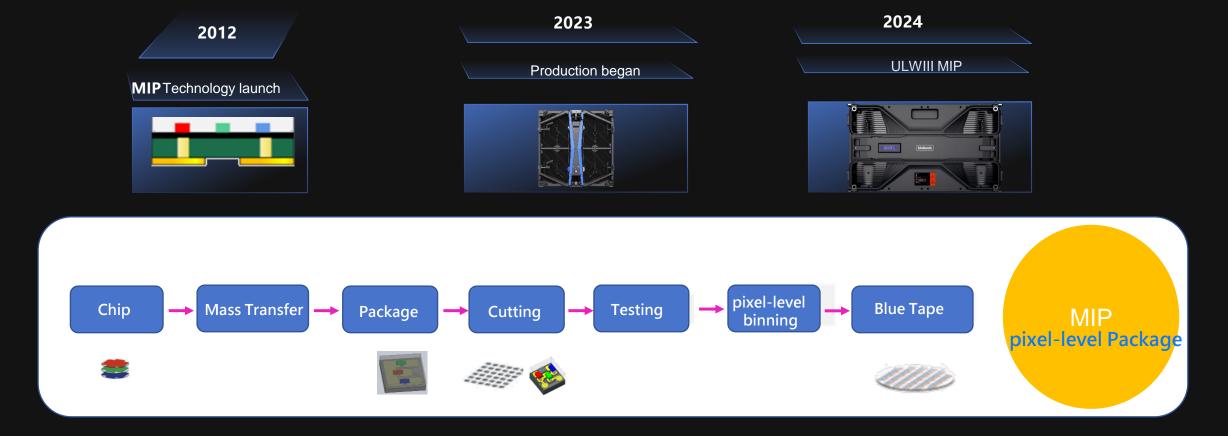
# ULWIII MIP Pro SERIES

First automatic Production NPP LED display



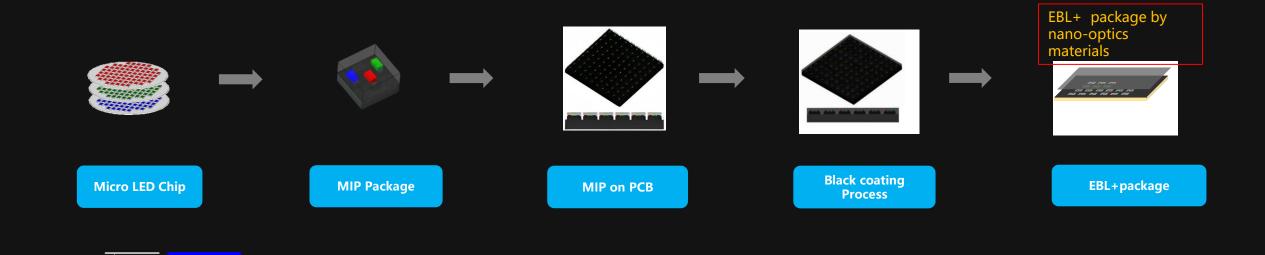
### What is MIP

MIP (Micro In Package): Micro LED chips are transferred to the carrier board by using mass transfer technology, package and cut into single pixel-level packages, and subjected to pixel-level inspection and binning.



### **What is Unilumin MIP**

### MIP + COB Surface Process Technology (EBL+technology)

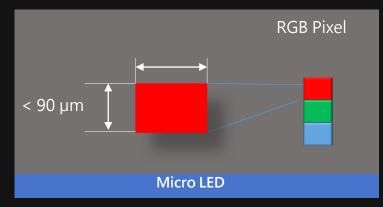


Full flip chip Mini/Micro chip

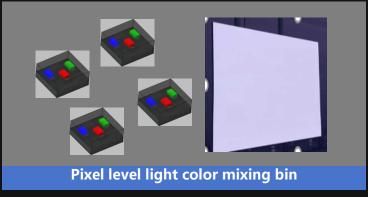
### MIP Technology Advantages

#### MIP Technology Advantages

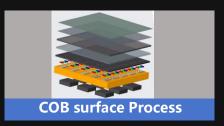
- Micro chip package: pixel-level binning, significantly enhances large viewing angle/
   black and white screen consistency and uniformity.
- Full flip chip design, ultra-high stability, high luminous efficiency, low power consumption.
- ♦ COB optical Processing with surface light source, better eye care.
- ◆ Large-size module design, reduces physical splicing gaps, improves flatness.



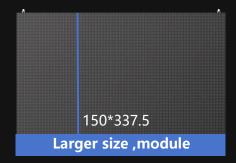
LED chip unilateral length < 90 μm



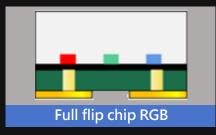
Better consistency from wide viewing angle



Surface light source



Larger PCB, lesser gaps



Higher luminous efficiency, lower consumption

### **ULWII** MIP Pro Technology Advantages







#### Pixel-level binning

High consistency over 99% 180° wide viewing angle without

color cast



No welding wire · high stability and longer life-span.

RGB full flip chip, reliability increased by 50%.

Common cathode energy-saving design, higher light efficiency.

#### EBL+ patented surface Process

Multi-layer nano-optical **Processing technology** 

Pure black | Soft display

Low reflection

Low touch trace | Low Moiré |



Anti-splash

Anti-dust

Anti-collision

Anti-scratch

Anti- static

Anti-bump

Anti-Moiré



Anti-mildew

Anti-moisture

Anti-salt mist



### **Excellent Visual Performance**

#### Ultra-high consistency over 99%

- Self-developed package
- Pixel-level binning



#### Wide viewing angle without color cast

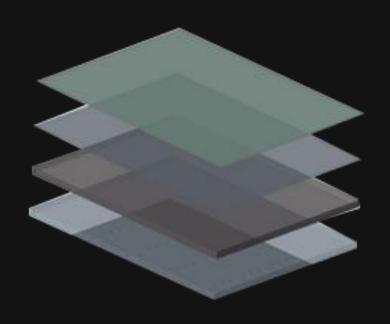
180° horizontal wide viewing angle

#### **Brilliant performance**

- High contrast ratio
- Support grayscale 22bit+
- Support HDR display



### **Excellent Visual Performance**





#### EBL+ (Enhance black level+) Multiple optical Processing

Adopt multilayer nano-optical material, 8000:1 high contrast ratio, presenting extremely deep black visual with no reflections.

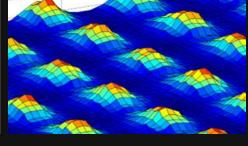
### **Care For Eyes**

#### **Eyes Protection**

#### **Surface light source**

Higher light-emitting uniformity

Better Protections for eyes



#### **Anti-glare, low reflection**

COB surface Process technology, more comfortable for eyes



#### **Globally certified**



Low blue light certification

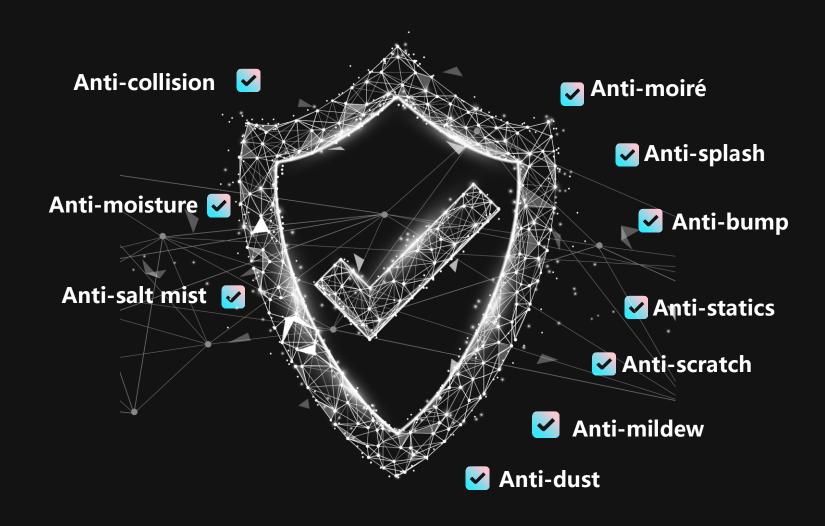
#### Prüfzeichen Test Mark:



Low Blue Light (Software Solution)

www.tuv.com

### **3+7 Protections**



### Stability & Green

### Full Flip Chip With Common Cathode — Mini & Micro Chip Level Package

- RGB full flip chip, no welding wires, higher Product stability, longer lifespan, failure rate reduced by 50%.
- Common cathode design, five-side light emission, higher luminous efficiency, power consumption reduced
   by 34% (compare with regular SMD)



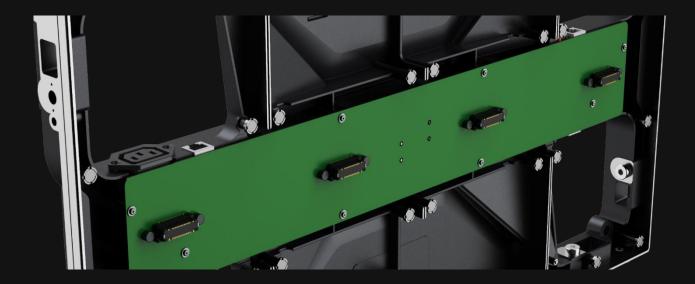


### High integration, more stable



### **High Integration**

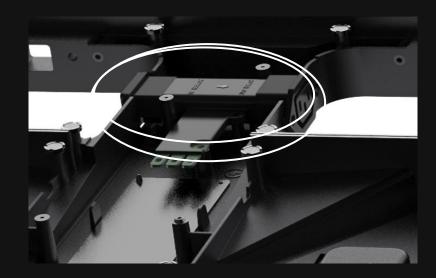
• Receiving card and hub 2-in-1 high integration design increases signal transmission stability





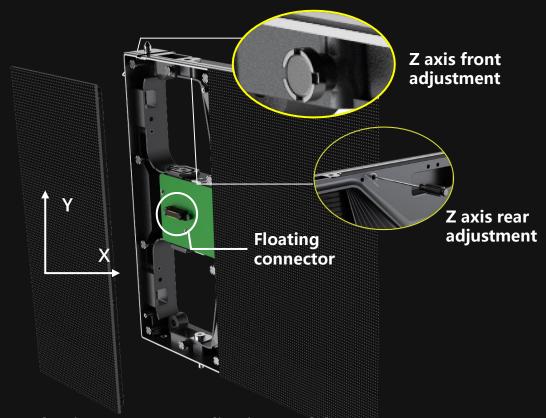
#### No cable Inside

- power input connects to PSU with integrated IEC connector
- Supporting dual power input for high stability



### XYZ axis six-way adjustment

#### Module XYZ axis six-way adjustment



Floating connector, adjusting module gap. module XYZ axis six-way adjust module flatness

#### Cabinet XYZ axis six-way adjustment



The flatness can be adjusted to 0.1 mm

### **High flexibility**

#### Flexible shape

Support inner curve, right angle and half cabinet

Support max 18° inner curve cabinet splicing, a complete circle can be made up with 20 cabinets



Product need to be customized, please consult your regional sales representative for delivery cycle.

### **Main Applications**



Exhibitions



Education



House theaters



Meeting room



Summit forums



Command center



## **Specification**

Product	ULWIII MIP Pro		
Pixel Pitch	0.9	1.2	1.5
Panel Size	600×337.5×47.8mm		
Weight	5kg/panel		
Brightness	600nits		
Maintenance	Front and rear maintenance		
Fault monitoring	Indicator light , LCD *		
Input Power <max></max>	350±10%W/m²	275±10%W/m²	250±10%W/m²
Input Power <typical></typical>	115±10%W/m²	90±10%W/m²	80±10%W/m²

### Unilumin

THANKS