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REV.

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MLED

O

2025.04.08

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# Product Pre-Specification BYH012 Ultra Rev. O

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## Change History

- (  ) Original Specification  
 (  ) Final Specification

Rev.	Page	Modified Content Description	Revision Date	Revision Person
0	-	Original Design	2025/03/18	

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## 1.0 Scope of application

This specification is suitable for indoor full-color point spacing P1.2 COB front main tenance cabinet, the following is the general product parameters, if there is special requirements, can be customized according to customer requirements.

## 2.0 Product description

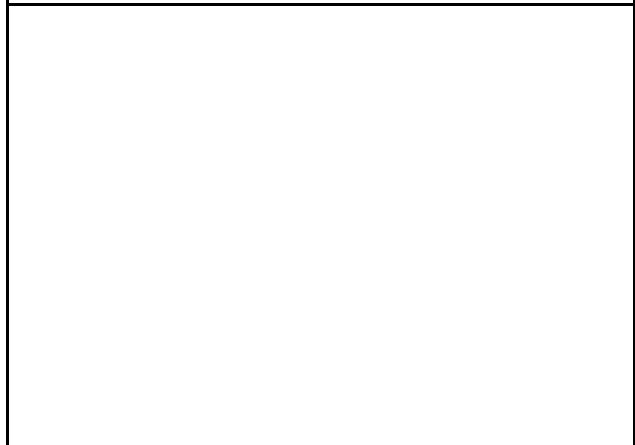
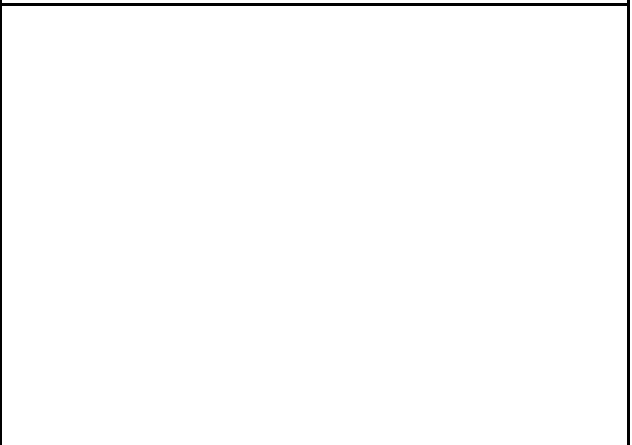
### 2.1 Product introduction

Full flip COB mini-LED technology solution, higher light efficiency, low flicker, to achieve a more environmentally friendly, healthier picture display effect, using the leading drive design and surface treatment scheme, can achieve lower power consumption and higher display contrast.

### 2.2 Product features

- 1) Display every pixel on the module unit module, using full flip R, G, B chip package, each chip is fixed on the substrate;
- 2) The display unit of the box body is a pre-maintenance magnetic suction structure, which is equipped with professional magnetic suction tools to complete installation and maintenance;
- 3) Modular structure design, simple connection, light weight, more convenient in stallation and disassembly;
- 4) High contrast to achieve better display effect;
- 5) Low power consumption, energy saving and environmental protection;

### 2.3 Product pictures

Front view of a Cabinet	Back view of a Cabinet
	

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### 3.0 Product technical parameters

#### 3.1 mechanical parameters

	Item	Technical parameters	Remark
MDL	Pitch(mm)	1.25	
	LED Type	COB 0407	
	Resolution	120*270	
	Size(mm*mm)	150*337.5	
	The surface hardness	2H	
	Protection grade	IP65	
Cabinet	Composition of Cabinet	4*1	
	Resolution	480*270	
	Size(mm*mm)	600*337.5	
	Pixel density(dot/m <sup>2</sup> )	640000	
	Thickness(mm)	32.3	
	Weight (kg)	4.5	
	Maintenance mode	Front	
	Material	ADC12	
	Flatness(mm)	≤0.1	

#### 3.2 Electrical parameters

Item	Technical parameters	Remark
Average power consumption of a cabinet(W)	12	@600nit
Max power consumption of a cabinet(W)	36	@600nit
Average power consumption per square meter(W)	60	@600nit
Max power consumption per square meter(W)	180	@600nit
Power supply requirements(V)	AC 100-240	

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### 3.3 Optical parameters

Item	Technical parameters	Remark
Single point brightness correction	Support	
Single point chromaticity correction	Support	
Brightness(cd/m <sup>2</sup> )	Typ 1500, Max 2000	
Color coordinates	Typ 0.313 0.329, Adjustable	
Color temperature(K)	Typ 9300, 2000 ~ 15000 Adjustable	
Color gamut	Typ. 99% DCI-P3	
Horizontal Angle of view( °)	160±10	
vertical Angle of view( °)	160±10	
Colour cast( °)	170±10	$\Delta u'v' \leq 0.02$
Relative deviation of pixel center distance	$\leq 3\%$	
Luminance uniformity	$\geq 97\%$	
Chroma uniformity	$\Delta u'v' \leq 0.005$	
Ambient light contrast	$\geq 20000:1$	10 lux light environment
Contrast	$\geq 1,000,000:1$	Darkroom L0

### 3.4 System parameters

Item	Technical parameters	Remark
frame frequency(Hz)	60	
refresh rate(Hz)	$\geq 7680$	
Drive mode	PM Constant current drive	
Grayscale (bit)	$\geq 16$	