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SPEC. NUMBER

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PRODUCT ORGANIZATION

MLED

REV.

0

ISSUING DATE

2022.9.21

PAGE NUMBER

1 OF 27

BOE COG PRODUCT SPECIFICATION

BYH-G009AB3

Rev. 3.0

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SPEC. NUMBER

PRODUCT ORGANIZATION

REV.

ISSUING DATE

PAGE NUMBER

-

MLED

O

2022.9.21

2 OF 27

Change History

() Original Specification

(√) Final Specification

Rev.	Page	Modified Content Description	Revision Date	Revision Person
1.0	-	Original Design	2022/9/21	gaobo
2.0	8	Requirements for Hazardous Substances in Products	2023/2/24	yangchen
3.0	1/4/8/18	Product model and FG code update, product brand update, product plan and back structure diagram update	2023/5/18	guosahofei
	5	Power Consumption Data update	2023/6/8	yangchen
	7	Packing Parameters update	2023/6/8	fukaipeng
	6	Optical Parameters update	2023/7/11	jinliangliang

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SPEC. NUMBER	PRODUCT ORGANIZATION	REV.	ISSUING DATE	PAGE NUMBER
-	MLED	O	2022.9.21	3 OF 27

Contents

No	ITEM	Page
	Change History	2
	Contents	3
1	Scope of Application	4
2	Product Description	4
3	Product Technical Parameters	5

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SPEC. NUMBER

-

PRODUCT ORGANIZATION

MLED

REV.

O

ISSUING DATE

2022.9.21

PAGE NUMBER

4 OF 27

1.0 Scope of Application

This specification applies to indoor COG front-maintenance cabinet with full-color performance and point spacing P0.9375. The following are general product parameters, which can be customized according to customer requirements.

2.0 Product Description

2.1 Product Introduction

P0.9375COG products use active-matrix driving method and Mini-LED flip-chip to achieve healthy display performance of no stroboscopic defect and low-blue light on hardware level. Combined with the leading optical surface treatment scheme, it can achieve low power consumption, environmental protection and better experience of higher display quality.

2.2 Product Feature

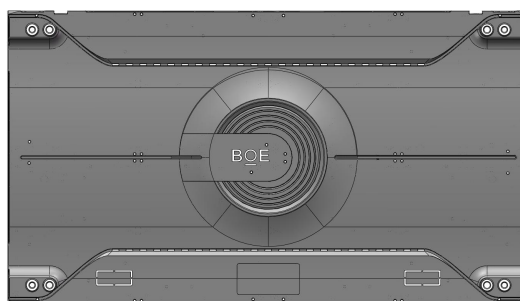
- 1) Active-matrix driving method, no stroboscopic defect, no scanning transient highlighting phenomenon, low-blue light scheme, healthy eye care.
- 2) Display every pixel on the module unit, using R, G, B flip-chip. Each chip is fixed on the glass substrate with high flatness.
- 3) The display unit of the cabinet body is a front-maintenance magnetic suction structure, which is equipped with professional magnetic attraction tools to complete installation and maintenance.
- 4) Modular structure design, simple connection, light weight, convenient installation and disassembly.
- 5) The product uses advanced surface packaging technology with good dark ink consistency and excellent bright display effect.
- 6) Low power consumption, energy saving and environmental protection.

2.3 Product Picture

Cabinet Front Appearance



Cabinet Backside Appearance



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SPEC. NUMBER

PRODUCT ORGANIZATION

REV.

ISSUING DATE

PAGE NUMBER

-

MLED

O

2022.9.21

5 OF 27

3.0 Product Technical Parameters**3.1 Mechanical Parameters**

Project		Technical Parameters	Remark
Module	Pitch(mm)	0.9375	
	LED Type	0408	
	Module Resolution	160*180	
	Module Size (mm*mm)	150 (H) * 168.75 (V)	
	Protection Grade	IP65	
Cabinet	Composition of Tray Module	1*2	
	Composition of Cabinet Module	4*2	
	Cabinet Resolution	640*360	
	Cabinet Size (mm*mm)	600*337.5	
	Pixel Density (dot/m ²)	1137777	
	Cabinet Overall Thickness (mm)	47.5	
	Maintenance Mode	Front maintenance	
	Cabinet Material	Die-casting aluminum	
	Cabinet Flatness (mm)	≤0.1	

3.2 Electrical Parameters

Project		Technical Parameters	Remark
Average Power of a cabinet (W)		26	
Maximum Power of a cabinet (W)		78	
Average Power Per Square Meter (W)		129	
Maximum Power Per Square Meter (W)		386	
Power Supply Requirement (V)		AC 100-240	

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SPEC. NUMBER

PRODUCT ORGANIZATION

REV.

ISSUING DATE

PAGE NUMBER

-

MLED

O

2022.9.21

6 OF 27

3.3 Optical Parameters

Project	Parameters	Remark
Single Point Luminance Correction	support	
Single Point Chromaticity Correction	support	
Equilibrium Luminance (cd/m ²)	Typ 500, 0~800 adjustable	
Chromaticity Coordinate	Typ 0.284 0.294, adjustable	
Color Temperature (K)	Typ 9300, 1500 ~ 15000 adjustable	
Color Gamut	> 110% NTSC	
Luminance Uniformity	≥97%	
Chromaticity Nonuniformity	$\Delta u'v' \leq 0.005$	
Horizontal Luminance Viewing Angle (°)	160±10	
Vertical Luminance Viewing Angle (°)	160±10	
Horizontal Chroma Viewing Angle (°)	170±10	$\Delta u'v' \leq 0.02$
Vertical Chroma Viewing Angle (°)	170±10	$\Delta u'v' \leq 0.02$
Dark-room Contrast	≥1,000,000:1	
Ink Consistency	$\Delta E \leq 0.5$	
Gloss Consistency	$\Delta G \leq 5$	

3.4 System Parameters

Project	Parameters	Remark
Frame Frequency (Hz)	60	
Drive Mode	AM constant current drive	
color depth	16.7M	