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BTQ025S Product specification

Rev. 0

BOE MLED Technology Co., Ltd.

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1. Product introduction

1.1 Scope of Application

This product specification is applicable to P2.5 indoor full-color modules

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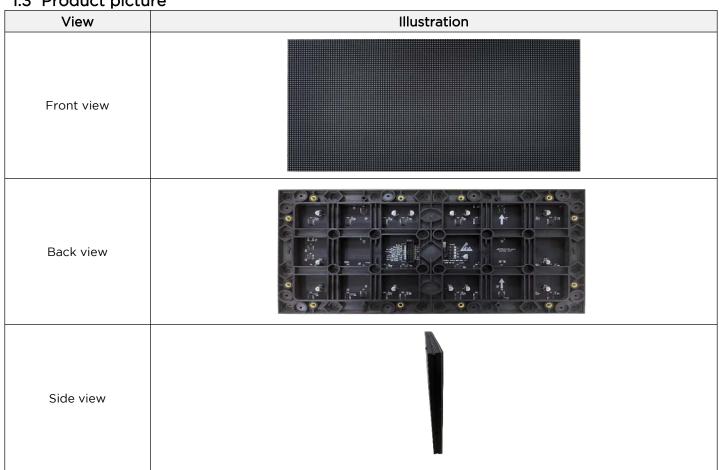
1.2 Product description

- Superior lamps, high brightness utilization rate, extended lamp life and high-quality plastic parts
- High contrast ration for superior display effect

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- · Light weight, easy installation and disassemble
- Single-point, single-lamp maintenance low-cost
- Constant current LED driver, uniform light, low power consumption

1.3 Product picture



1.4 LOGO location

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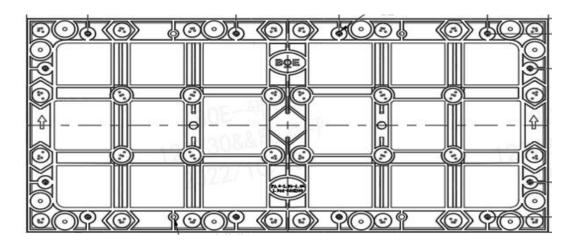


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2. Product specification

Category	Parameters	Specification		
	Pitch(mm)	2.5		
	LED model	SMD2020		
	LED Type	Copper wire		
	Module resolution	128*64		
Module	Module size ± tolerance(mm×mm	319.9 ± 0.1*159.9 ± 0.1*14.6 ± 0.2		
	×mm)	319.9±0.1139.9±0.114.6±0.2		
	Module weight ± tolerance(g)	0.42 ± 0.05		
	Module flatness (mm)	≤0.2		
	Module density (dot/m²)	160000		
	White balance brightness (cd/m²)	≥450		
0	Color temperature	3000 ~ 15000k adjustable		
Optical	Horizontal viewing angle	≥150°		
Parameters	Vertical viewing angle	≥130°		
	View distance (m)(=PITCH*1)	≥2.5		
	Maximum power consumption per	≤20		
	module (W)	<20		
	Average active power consumption	≤13O		
Electrical	(W/m²)	≈130		
Parameters	Maximum active power consumption	≤390		
	(W/m²)			
	Operating voltage (V)	5		
	Signal input interface type	HUB75		
Due se seine	Scanning mode	32S		
	Frame change frequency (Hz)	50/60		
Processing	Refresh frequency (Hz)	3840		
Performance	Driving mode	Constant drive		
	Gray scale (Bit)	≥12		

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Category	Parameters	Specification		
	Continuous operation time	≥7×24hrs, Support uninterrupted display		
Operating	Average trouble-free working time	≥5000 hours		
Parameters	Discrete runaway point	≤0.0001, Preset at 0		
	Continuous runaway point	0		
	Blind spot rate	≤0.0001, Preset at 0		
	Typical life value (hrs)	30000Н		
Litilization	Operating temperature (℃)	-10℃-40℃		
Utilization	Storage temperature (℃)	-20℃-50℃		
Parameters	Operating humidity (RH)	10%-60%RH(No condensation)		
	Storage humidity (RH)	10%-65%RH(No condensation)		
Protection Grade	Protection grade	IP30		

3. Definition of signal interface

			Pin	Signal	Function	Pin	Signal	Function
			1	R1	Red data	2	G1	Green data
					signal			signal
	UB75		3	B1	Blue data	4	GND	GND of power
"	00/0]			signal			supply
1	•	2	5	R2	Red data	6	G2	Green data
3	•	4			signal			signal
5		6 8	7	B2	Blue data	8	Е	Line control
7 •		10			signal			signal
11		12	9	Α	Line control	10	В	Line control
13	•	14			signal			signal
15	•	16	11	С	Line control	12	D	Line control
]			signal			signal
			13	CLK	Clock signal	14	LAT	Latch signal
			15	OE	Enable signal	16	GND	GND of power
								supply

- 4. Mounting holes
- 4.1 Module mounting hole location (Unit: mm)

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