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SPEC. NUMBER

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2023.11.30

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BTQ015

Product specification

Rev. 0

BOE MLED Technology Co., Ltd.

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1. Product introduction


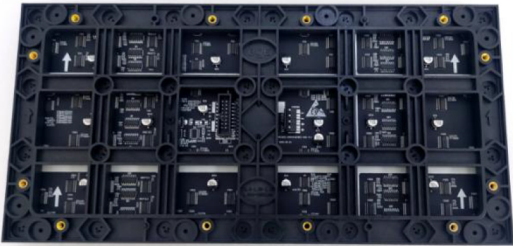

1.1 Scope of Application

This product specification is applicable to P1.53 indoor full-color modules

1.2 Product description

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

View	Illustration
Front view	
Back view	
Side view	

1.4 LOGO loction

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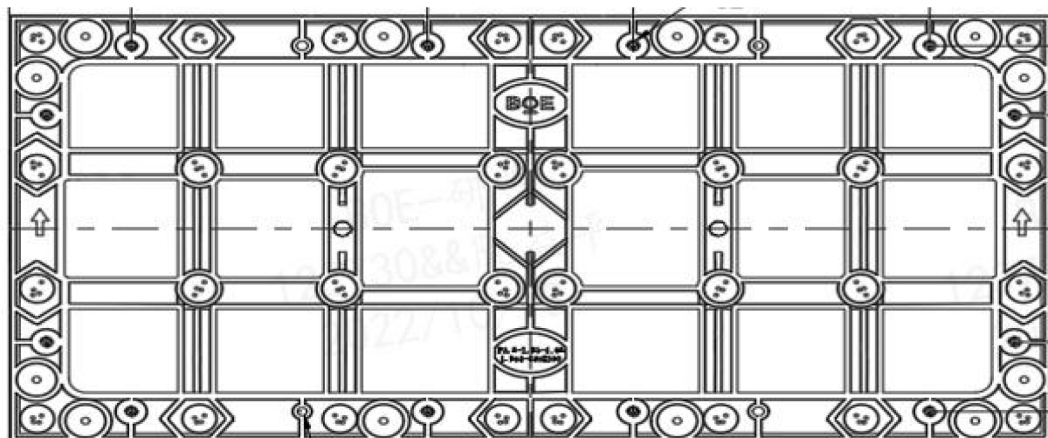
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2. Product specification

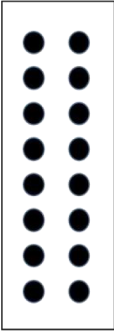
Category	Parameters	Specification
Module	Pitch(mm)	1.53
	LED Model	SMD1212
	LED Type	Copper wire
	Module resolution	208*104
	Module size \pm tolerance(mm \times mm \times mm)	$319.9 \pm 0.1 * 159.9 \pm 0.1 * 15 \pm 0.2$
	Module weight \pm tolerance(g)	0.42 ± 0.05
	Module flatness (mm)	≤ 0.2
Optical Parameters	Pixel density (dot/m ²)	422500
	White balance brightness (cd/m ²)	≥ 450
	Color temperature	3000 ~ 15000k adjustable
	Horizontal viewing angle	$\geq 150^\circ$
	Vertical viewing angle	$\geq 130^\circ$
Electrical Parameters	View distance (m)(=PITCH*1)	≥ 1.5
	Maximum power consumption per module (W)	≤ 20
	Average active power consumption (W/m ²)	≤ 130
	Maximum active power consumption (W/m ²)	≤ 390
	Operating voltage (V)	5
Processing Performance	Signal input interface type	HUB75
	Scanning mode	52S
	Frame change frequency (Hz)	50/60
	Refresh frequency (Hz)	3840
	Driving mode	Constant drive
Gray scale (Bit)	≥ 12	

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Category	Parameters	Specification
Operating Parameters	Continuous operation time	≥7x24hrs, Support uninterrupted display
	Average trouble-free working time	≥5000 hours
	Discrete runaway point	≤0.0001, Preset at 0
	Continuous runaway point	0
	Blind spot rate	≤0.0001, Preset at 0
Utilization Parameters	Typical life value (hrs)	30000H
	Operating temperature(°C)	-10°C-40°C
	Storage temperature(°C)	-20°C-50°C
	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
 <p>HUB75</p>	1	R1	Red data signal	2	G1	Green data signal
	3	B1	Blue data signal	4	GND	GND of power supply
	5	R2	Red data signal	6	G2	Green data signal
	7	B2	Blue data signal	8	E	Line control signal
	9	A	Line control signal	10	B	Line control signal
	11	C	Line control signal	12	D	Line control 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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