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# BOE

SPEC. NUMBER

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Product organization

MLED

REV.

-

Release date

2023.11.30

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# BTQ030S

# Product specification

Rev. 0

BOE MLED Technology Co., Ltd.

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## 1. Product introduction

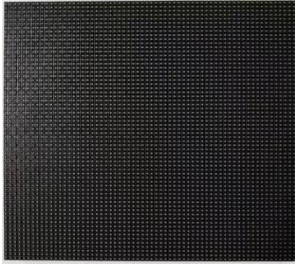
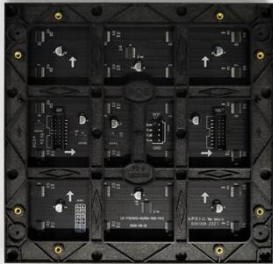

### 1.1 Scope of Application

This product specification is applicable to P3.0 indoor full-color modules

### 1.2 Product description

- Superior lamp, 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 location

Category	Parameters	Specification
Module	Pitch(mm)	3.0
	LED model	SMD1515
	LED Type	Copper wire
	Module resolution	64*64
	Module size ± tolerance(mm × mm × mm)	191.9 ± 0.1*191.9 ± 0.1*14.4 ± 0.2
	Module weight ± tolerance(g)	0.25 ± 0.05
	Module flatness (mm)	≤0.2
	Module density (dot/m²)	111111
Optical Parameters	White balance brightness (cd/m²)	≥450
	Color temperature	3000 ~ 15000k adjustable
	Horizontal viewing angle	≥150°
	Vertical viewing angle	≥130°
	View distance (m)(=PITCH*1)	≥3
Electrical Parameters	Maximum power consumption per module (W)	≤20
	Average active power consumption (W/m²)	≤130
	Maximum active power consumption (W/m²)	≤390
	Operating voltageV)	5
	Signal input interface type	HUB75
Processing Performance	Scanning mode	32S
	Frame change frequency (Hz)	50/60
	Refresh frequency (Hz)	3840
	Driving mode	Constant drive
	Gray scale (Bit)	≥12

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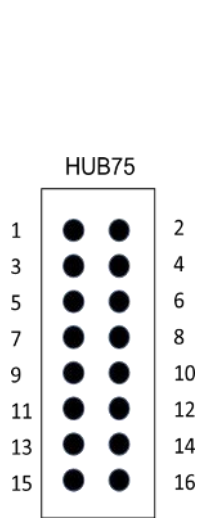
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Category	Parameters	Specification
Operating Parameters	Continuous operation time	≥7X24hrs, Support uninterrupted display
	Average trouble-free working time	≥ 5000 hours
	Discrete runaway point	≤0.0001, Preset at 0
	Continuous runaway point	0
	Blind 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
		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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