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BOE



# BTQ015S
# Product specification

Rev. 2

BOE MLED Technology Co., Ltd.

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# 1. Product introduction

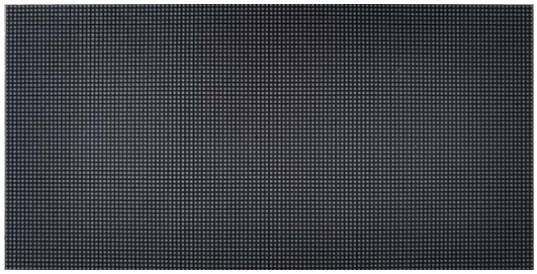
## 1.1 Scope of Application

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

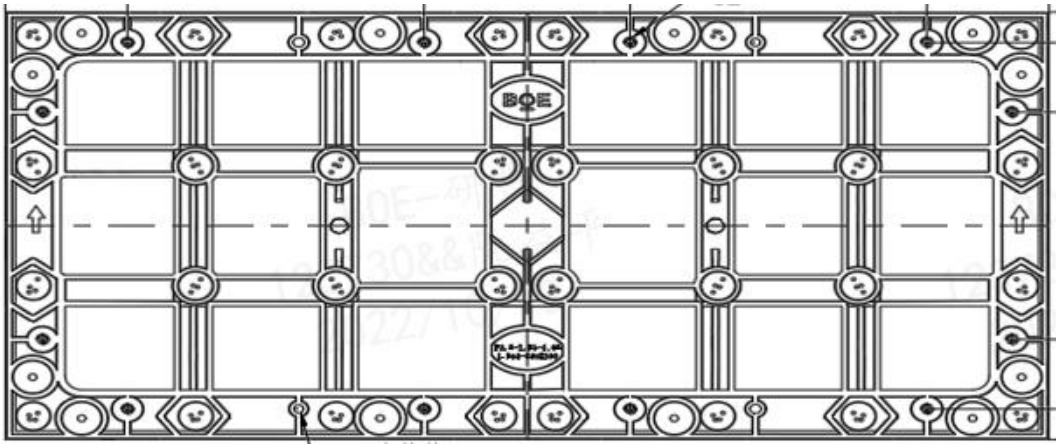
## 1.3 Product picture

| View | Illustration |
|---|---|
| Front view |  |
| Back view |  |
| Side view |  |

## 1.4 LOGO loction

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## 2. Product specification

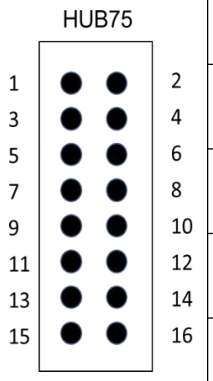
| Category | Parameters | Specification |
|---|---|---|
| Module | Pitch(mm) | 1.53 |
| | LED Model | SMD1212 |
| | LED Type | Copper wire |
| | Module resolution | 208*104 |
| | Module size ± tolerance(mm × mm × mm) | 319.9 ± 0.1*159.9 ± 0.1*15 ± 0.2 |
| | Module weight ± tolerance(g) | 0.42 ± 0.05 |
| | Module flatness (mm) | ≤0.2 |
| | Pixel density (dot/m²) | 422500 |
| Optical Parameters | White balance brightness (cd/m²) | ≥600 |
| | Color temperature | 3000～15000k adjustable |
| | Horizontal viewing angle | ≥160° |
| | Vertical viewing angle | ≥140° |
| | Contrast Ratio | 5000:1 |
| | View distance (m)(=PITCH*1) | ≥1.5 |
| Electrical Parameters | Maximum power consumption per module (W) | ≤20 |
| | Average active power consumption (W/m²) | ≤130 |
| | Maximum active power consumption (W/m²) | ≤390 |
| | Operating voltage (V) | 5 |
| | Signal input interface type | HUB75 |
| Processing Performance | Scanning mode | 52S |
| | Frame change frequency (Hz) | 60 |
| | Refresh frequency (Hz) | 3840 |
| | Driving mode | Constant drive |
| | Gray scale (Bit) | ≥14 |

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| Category | Parameters | Specification |
|---|---|---|
| Operating Parameters | Continuous operation time | ⩾7×24hrs，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) | 100000H |
| | Operating temperature(℃) | -10℃-40℃ |
| | Storage temperature(℃) | -20℃-50℃ |
| | Operating humidity (RH) | 10%-60%RH(No condensation) |
| | Storage humidity (RH) | 10%-65%RH(No condensation) |
| Protection Grade | Protection grade | IP50 |

## 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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