



Features

- Die-Cast Aluminum
- Heat-Treated PCBs
- 4-Layer PCB
- IP65 Rating
- Louver Design
- High Yield Rate
- 3 Years Standard Warranty (extendable up to 5 years)

The Orion P4 Outdoor Rigel Series is designed to deliver durable and high-performance outdoor LED displays with superior image clarity and weather resistance. The cabinet is crafted from die-cast aluminum with a sleek, precision-engineered design, including an adjustable lock system with less than 0.1mm tolerance for seamless panel alignment. A specially designed louver system enhances contrast and supports clear visibility even in bright daylight, without compromising the viewing angle, making it suitable for both indoor and outdoor settings. Consistent product performance is achieved through standardized manufacturing processes, while all PCBs—constructed with 4-layer architecture—are heat-treated for a minimum of 24 hours before SMD LED mounting.

Technical Specification

| S.NO. | Product Parameter | SMD P4 |
|-------|-----------------------------|-------------|
| 1 | Pixel Pitch in mm | 4 |
| 2 | Pixel Density in sqm | 62500 |
| 3 | Module Size in mm | 320X160 |
| 4 | Cabinet Size in mm | 960 x 960 |
| 5 | Cabinet Weight in KG | 27 |
| 6 | Viewing Angle in H/V | 140/140 |
| 7 | Brightness in cd/sqm | 5,500 |
| 8 | Color Depth | 14 bit |
| 9 | Refresh Rate in Hz | ≥3840 |
| 10 | Voltage | 220v |
| 11 | Avg. Power Consumption (W) | 300 |
| 12 | Max Power Consumption (W) | 700 |
| 13 | Service Excess | Rear |
| 14 | IP Grade Front/Rear | 65/54 |
| 15 | Operating Temperature (-/+) | -10°C~+65°C |
| 16 | Operating Humidity | 0-99% |
| 17 | Life Time in hrs | 100,000 |
| 18 | MTBF in hrs | 5,000 |

| S.No. | Component Parameter | SMD P4 |
|-------|---------------------|-------------------|
| 1 | LED Chip | Nationstar Copper |
| 2 | PCB | 4 layer |
| 3 | Driver IC | ICN/DP/MBI |
| 4 | Power Supply | Chuangliang |
| 5 | Controller | Nova |
| 6 | Cabinet Material | Die Cast |

Specifications and product information are subject to change without prior notice due to ongoing innovation and development. For the most up-to-date details, please visit www.orion-led.com.

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