



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	62,500
3	Module Size in mm	320 x 160
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/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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