



Features

- IP65 Rating
- High Brightness & Contrast
- Dual-Use Flexibility
- Adjustable Lock System
- 24-Hour PCB Heat Treatment
- Standardized Production Workflow
- 5 Years standard warranty (extendable up to 7 years)

The Orion Outdoor P3 mm Display is crafted for durability and outstanding visual performance in challenging environments. With an IP65 rating, it ensures protection against dust and water, while delivering high brightness and contrast for clear viewing under direct sunlight. The display features an elegant die-cast aluminum cabinet equipped with a precision-engineered adjustable lock system, maintaining a tolerance of less than 0.1mm for flawless alignment. Its innovative louver design enhances daytime visibility and contrast without affecting the viewing angle, making it a smart solution for both outdoor and indoor settings. Utilizing state-of-the-art surface mount technology, every step of the solder paste application is machine-controlled, automatically filtering out any defects to improve production yield. A standardized manufacturing process ensures consistent quality, while high-grade PCBA materials and 24-hour heat-treated PCBs provide superior reliability and long-term performance.

Technical Specification

S.NO.	Product Parameter	SMD P3
1	Pixel Pitch in mm	3
2	Pixel Density in sqm	111000
3	Module Size in mm	192 x 192
4	Cabinet Size in mm	768 x 768
5	Cabinet Weight in KG	16
6	Viewing Angle in H/V	160/160
7	Brightness in cd/sqm	6,500
8	Color Depth	16 Bit
9	Refresh Rate in Hz	≥7680
10	Voltage	220v
11	Avg. Power Consumption (W)	200
12	Max Power Consumption (W)	450
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	1,00,000
18	MTBF in hrs	10,000

S.No.	Component Parameter	SMD P3
1	LED Chip	Nation star Gold Bond
2	PCB	6 Layer
3	Driver IC	MBI/ICN/TI
4	Power Supply	Meanwell
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.

