



Features

- IP65 Rating
- High Brightness & Contrast
- Die-cast Aluminum Cabinet
- Special Louver Design
- High-Quality PCBA Materials
- 24-Hour Heat-Treated PCBs
- 5 Years standard warranty (extendable up to 7 years)

The Orion Outdoor P2.5 mm Display is built to perform in demanding environments, offering an IP65-rated design that ensures durability against the elements while delivering high brightness and contrast. Its die-cast aluminum cabinet features a sleek, precise structure with an adjustable locking system, maintaining a precision tolerance of less than 0.1mm. A unique louver design enhances daytime visibility and contrast without compromising the viewing angle, making it a versatile solution for both indoor and outdoor applications. Incorporating advanced surface mount technology, every stage of paste application is closely monitored to eliminate defects early in the process, resulting in a significantly higher yield rate. A standardized manufacturing process ensures consistent quality and stability across all units. Additionally, only the highest-grade PCBA materials are used, with every PCB undergoing a 24-hour heat treatment prior to LED mounting to ensure long-term reliability and performance.

Technical Specification

S.NO.	Product Parameter	SMD P2.5
1	Pixel Pitch in mm	2.5
2	Pixel Density in sqm	1,60,000
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	160/160
7	Brightness in cd/sqm	6,000
8	Color Depth	16 Bit
9	Refresh Rate in Hz	≥7680
10	Voltage	220v
11	Avg. Power Consumption (W)	300
12	Max Power Consumption (W)	600
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 P2.5
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.



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