

Product Specification

Outdoor Soft Module Series

Specification Model : P2.5-1415-16S

Specification Description: Outdoor Soft Module

Module Structure: Integrated Lamp Driver

Lamp Bead Specification: 1415

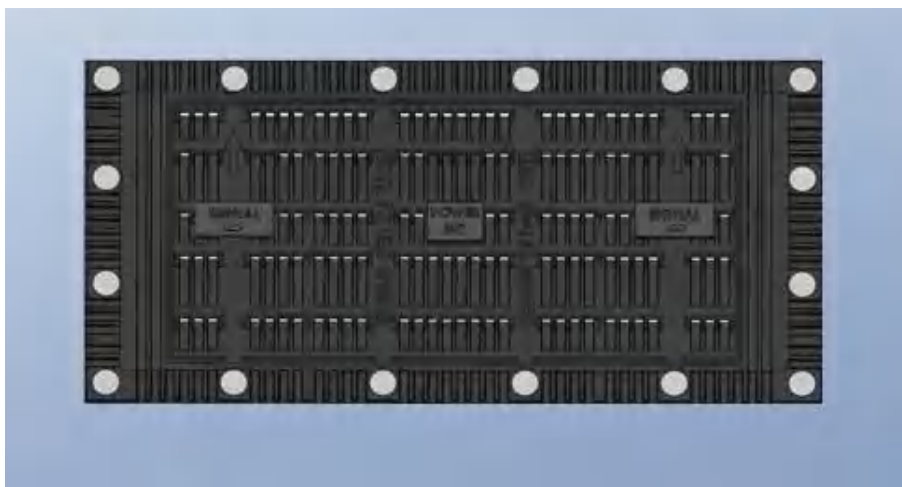
I. Main Technical Parameters

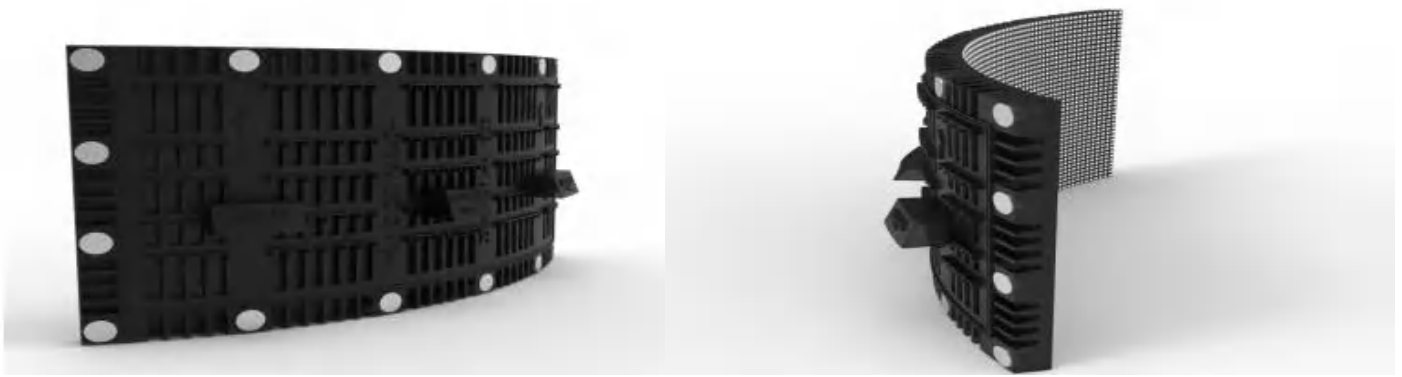
Outdoor Full Color Soft Module P2.5 (1415)

Outdoor P2.5 LED Display Soft Module Technical Parameters	
1. Pixel	Lamp Bead Parameters: SMD1415
	Pixel Tube Packaging: Copper Wire Copper Bracket
	Packaging Manufacturer: Customizable
	Pixel Tube Configuration: 1R+1G+1B
	Density: 160,000 dots/m ²
	Primary Colors: Red, Green, Blue
2. Unit Module Technolog Parameters	Number of Rows and Columns: Width 128 pixels × Height 64 pixels
	Module Size: 320mmX160mmX11.5mm (Length X Width X Thickness)
	Maximum Power Consumption: ≤30W
	Optimal Viewing Distance: 5-60m
	Optimal Viewing Angle: Horizontal 160°, Vertical 140°
	Operating Temperature: -20°C to +60°C
	Relative Humidity: ≤90%
	Module Weight: 460g
	Module Thickness: 11.5
4. Module Power Supply	Operating Input Voltage: AC110V-220V±10%
	Operating Output Voltage: DC4.2-5V
	Average Power Consumption: ≤270W/m ²
	Maximum Power Consumption: ≤800W/m ²
5. Main Technical Parameters	1) Driver Device: Brand High Refresh Driver IC
	2) Driving Method: Dynamic Scanning 1/16
	3) Refresh Rate: ≥3840 frames/second
	4) Frame Rate: ≥60 frames/second
	5) Gray Scale/Color: 256 levels × 256 levels × 256 levels 6)
	Brightness: ≥5000 Cd/m ²
	7) Display Control Method: Synchronous and Asynchronous Mapping Control
	8) Brightness Adjustment Method: Software Adjustment
	9) Service Life: ≥100,000 hours
	10) Place of Origin: Shenzhen

II. Product Features

- ★ The module adopts a universal standardized 320*160mm size display module.
- ★ High-quality lamp beads, high refresh constant current driver IC, low temperature energy-saving, high refresh and high brightness.
- ★ The module can be maintained from the front and back, and the assembly box can be locked with screws and magnets. It has IP65 waterproof design on the front and back, and can bend up to 145 degrees. The minimum diameter of the circle is 61cm.
- ★ Standard hard modules can be customized and produced together, using the same batch of lamp bead covers. Outdoor installation does not require air conditioning, and quick assembly saves time.
- ★ Independently developed, designed, and produced, the PCB and kit are patented products. The bottom shell design has water guide grooves, waterproof rings, and heat dissipation holes. It can prevent rainwater from entering the box and protect the IC and product lifespan. It has efficient dustproof, waterproof protection, uniform ink color, and UV-resistant mask kit.
- ★ The outdoor LED display soft module has undergone multiple high and low temperature function tests and scanning layer detection. It is a mature product with stable performance and leading industry standards.
- ★ Suitable for outdoor media, lamp post screens, cylindrical screens, inner and outer curved screens, 3D corner screens, irregular ribbon screens, and various irregular screens. Three. Module picture display





“ Let show extraordinary horizon ”

320X160series

Guiding flume

Adsorption magnet

Top cover plug port

Heat dissipation hole

Safety rope

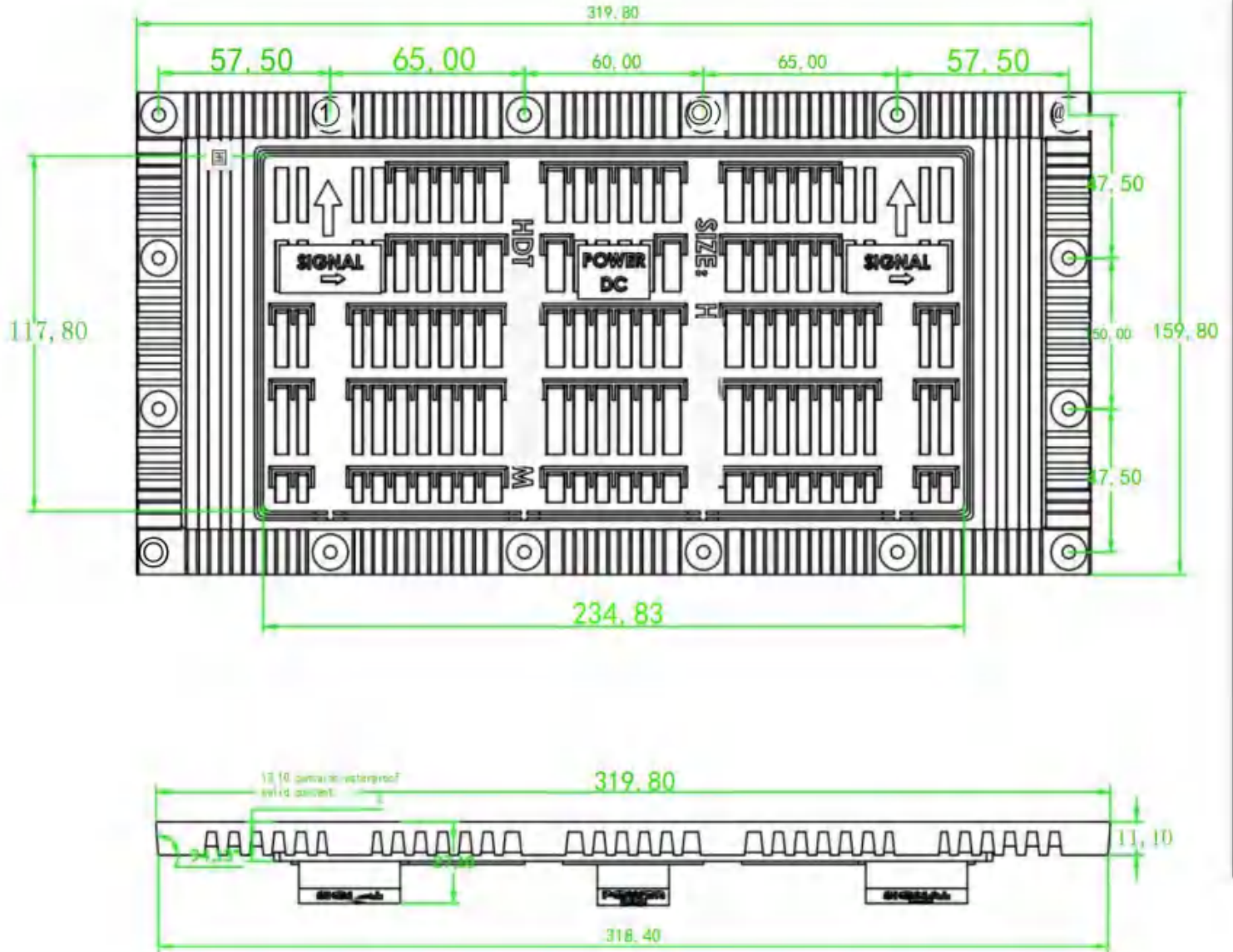
Two waterproof layers

Model : P2.5/P3/P4/P5

Outdoor Flexible Module



Four. Module hole size diagram:



Note: 11.1mm height is the actual height of the bottom shell without lamp heads and mask height

Five. Outdoor soft module model specification parameter table:

Model	P2.5	P3	P4	P5
Pixel Pitch	2.5mm	3.076mm	4mm	5mm
Lamp Bead Parameters	SMD1415	SMD1415	SMD1921	SMD1921
Specification Size	320x160mm	320x160mm	320x160mm	320x160mm
Unit Resolution	128X64 pixels	104X52 points	80X40 points	64X32 points
Pixel Density	160000 /m ²	105625 /m ²	62500 /m ²	40000 /m ²
Brightness	≥5000Cd/m ²	≥5000Cd/m ²	≥5000Cd/m ²	≥5000Cd/m ²
Scanning Method	1/16S	1/13S	1/10S	1/8S
Refresh Rate	≥3840 frames per second	≥3840 frames per second	≥3840 frames per second	≥3840 frames per second
Driving Method	Constant Current Energy-saving IC	Constant Current Energy-saving IC	Constant Current Energy-saving IC	Constant Current Energy-saving IC
Peak Power	800w	800W	600W	600W
Average Power Consumption	270W	270W	210W	210W
Module Weight	460g	460g	460g	460g
Operating Voltage	DC4.2-5V	DC4.2-5V	DC4.2-5V	DC4.2-5V
Protection Level	IP65	IP65	IP65	IP65



