

# PRODUCT SPECIFICATION

(Outdoor Rental series 250X250mm)

| <b>Product Name:</b> 9 | <u> Dutdoor Full Colo</u> | or Display P4 <mark>.8</mark> 1 13S Module |
|------------------------|---------------------------|--|
| Model :                | P4.81-1921-13S-           | <u>**</u>                                  |
| <b>Document Numb</b>   | er: <u>2305</u> 1         | 191605                                     |
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|----------|--------|---------|
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#### Statement:

This document strives to be accurate but may still be errors, it is for reference only, please refer to actual product.

If product information is updated, pls refer to the latest specification for details without prior notice. Xiamen Haijia Technology Co., Ltd reserves the final right of interpretation.

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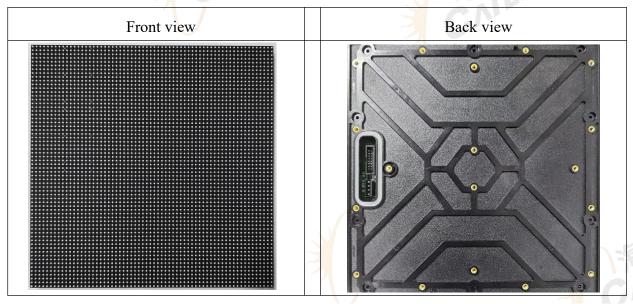


## 1. Product description

- Outdoor rental series has uniform kit size& hole position& cabinet hole position, which can be used universally;
- High performance: Dedicated driver chip and input buffer chip for LED high-density full-color screen, bright colors, more delicate and smooth video images;
- Good Effect: The driver IC drives red, green, and blue three-color LED through OE signals, which can form 4,398 billion color transformations;
- Ultra-wide field: SMD lamps, multi-directional viewing effect is the same from multiple direction;
- Display effect: high contrast, enhance the contrast between light and dark, enhance the details of the picture, and restore the true color;
- Low power consumption: It adopts constant current mode to activate LED, with uniform luminescence and low power consumption performance;
- Good portability: The module is light in weight and easy to install and disassemble;
- Strong reliability: It adopts high protection lamp beads, glue filling on the front, and three-proof paint spraying on the back, waterproof and moisture-proof, stable and reliable;
- 4.807mm pixel pitch, with52\*52 pixels totally, each pixel is composed of 1R1G1B

## 2. Appearance and structure

## 2.1 Module picture



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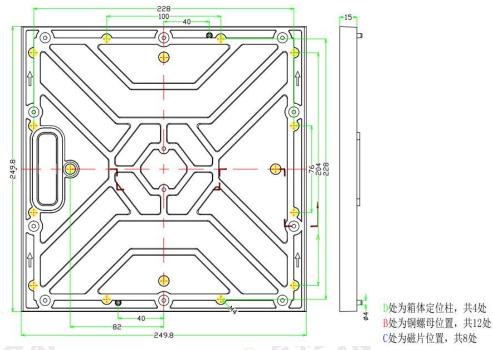
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### 2.2 Packing and accessories

| GALLIA<br>GALLIA  | Size(mm): 550*295*565<br>Volume(m³): 0.09167125  |
|-------------------|--|
| Outer packing     | Gross weight: 25kg   |
| Inner packing     | 32pcs/box  |
| ninei packing     | Module Packing: transparent PE bag   |
| VILI              | Wiring specification:  |
| Standard fittings | 16P pin header, 35mm long  |
| Standard Ittings  | Power cord specifications: 2.5mm <sup>2</sup> one-to-two copper power cord, 36cm tow 25cm/10cm |

#### 2.3 Mounting hole location



Remarks: If you want to make a cabinet, please inform and confirm the hole position diagram of the order product in advance, and refer to the CAD drawing for details; the unit of all dimensions is mm.

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# 3. Technical parameters

## 3-1 Product technical parameters

| Items                         | GP                                | Tech <mark>n</mark> ical parameters               |
|-------------------------------|-----------------------------------|---|
| 1                             | Module size                       | 250mm (W)*250mm (H)*17mm (T)                      |
|                               | Pixel pitch                       | 4.807mm   |
|                               | Pixel density                     | 43264dots/m2                                      |
| Module                        | LED lamp                          | SMD1921   |
|                               | Resolution                        | 52 dot(W)*52 dot(H)                               |
|                               | Module area                       | 0.0625 m²   |
| al                            | Weight                            | $0.68$ kg $\pm0.01$ kg                            |
| 走光                            | Viewing distance                  | ≥5m   |
| ( : E 12 )                    | Viewing angle                     | 140 (H)/130 (V)                                   |
| optical parameter             | Pixel configuration               | 1R1G1B  |
| G/Y                           | Brightness range                  | 3500-4000cd/m <sup>2</sup>                        |
| 7 7                           | Working voltage                   | DC 4.5-5V   |
|                               | max power consumption             | ≤45W  |
|                               | Driver IC                         | Constant current driver                           |
|                               | Drive mode                        | 1/13 S  |
| electrical                    | Refresh rate                      | ≥1920Hz/3840Hz                                    |
| parameter                     | Gray scale                        | 13-14bit  |
| 01/20                         | Control mode                      | Synchronous control                               |
| *1G                           | Maximum power                     | $\leq 720 \text{w/m}^2$                           |
| 1 Are                         | Power distribution                | 1085.9w/m² (Maximum power per square ÷ 78% ÷ 85%) |
|                               | Operating environment             | Outdoor   |
|                               | Working temperature               | -20℃~50℃  |
|                               | Working humidity                  | 10%to 90%RH                                       |
| System working characteristic | MTBF                              | ≥10000 hours                                      |
|                               | Work life                         | ≥100000 hours                                     |
|                               | Blind spot rate                   | ≤1/10000  |
|                               | Attenuation rate(Working 3 years) | ≤15%  |
|                               | J)                                |   |

<sup>\*</sup>The contents and information in the product will be subject to change without further notice, the company does not undertake any responsibility.

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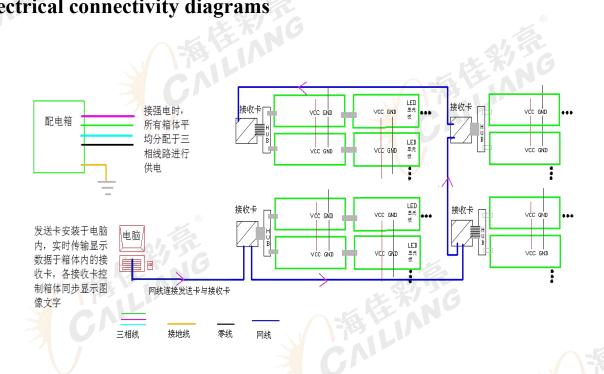
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#### 3-2 Pin definition

| Pin  | assiį    | gnm  | ent |   | GA            | Liv      | Pin function       | on descr      | iption   | 9                         |
|------|----------|------|-----|---|---------------|----------|--------------------|---------------|----------|---------------------------|
| PI ( | N<br>HUE | 375) |     |   | Pin<br>number | Function | Remark             | Pin<br>number | Function | Remark                    |
| 1    | •        | •    | 2   |   | 1             | R1       | Red data signal    | 2             | G1       | Green data signal         |
| 3    | •        | •    | 4   |   | 3 (           | B1       | Blue data signal   | 4             | GND      | Grounding                 |
| 5    | •        | •    | 6   | 1 | 5             | R2       | Red data signal    | 6             | G2       | Green data signal         |
| 7    | •        | •    | 8   |   | 7             | B2       | Blue data signal   | 8             | GND      | Grounding                 |
| 9    | •        |      | 10  |   | 9             | A        | A scanning signal  | 10            | В        | B scanning signal         |
| 11   | •        | 1.   | 12  |   | 11            | С        | C scanning signal  | 12            | GND      | Grounding                 |
| 13   | •        | •    | 14  |   | 13            | CLK      | Clock latch signal | 14            | LAT      | Displacement latch signal |
| 15   | •        | •    | 16  |   | 15            | OE       | Enable signal      | 16            | GND      | Grounding                 |

# 4. Electrical connectivity diagrams



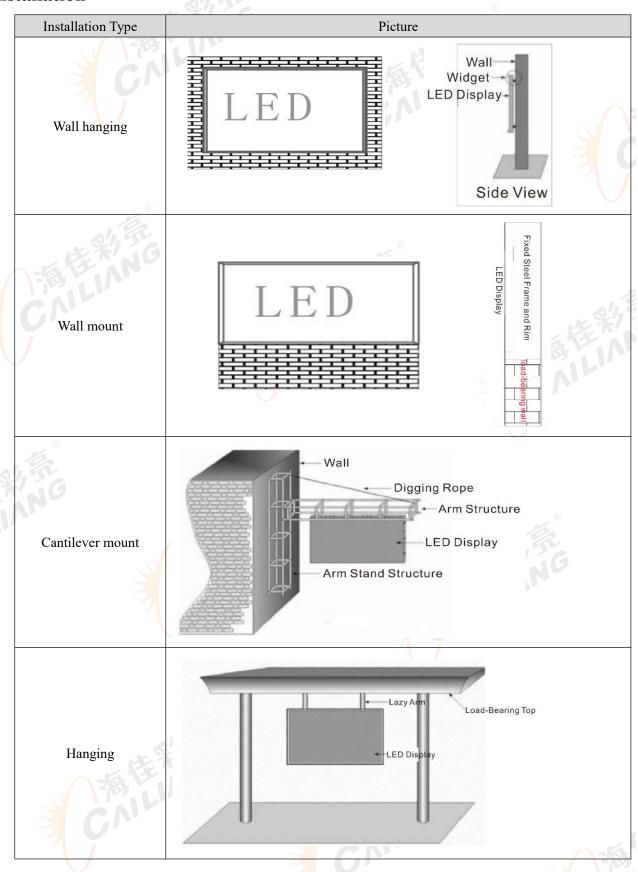
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# 5. Installation



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# 6. Acceptance criteria and methods

| Items                                      | Acceptance criteria and methods   |
|--|---|
| LED Display<br>Brightness                  | Turn the screen to a fully bright state, adjust the brightness efficiency in the test software to 80% on the computer, and use a light gun to measure the brightness of the screen body within 10 minutes. When measuring brightness, the light gun is required to be aimed at the screen body, it is best to measure that the time gun can be kept level with the screen body, ensure that the black position of the observation window covers more than 16 pixels, adjust the focus so that you can clearly see the luminous point before measuring and reading.              |
| Visual angle                               | When measuring, people stand at the left and right positions of the screen body 150°, and the viewing angle under the screen body is 70° (that is, the vertical viewing angle of the screen body is 140°), which requires no obvious black spots and no obvious dark blocks in the screen body.   |
| Grounding & lightning protection treatment | Grounding: The structure of the switching power supply shell, cabinet and screen body is correctly grounded, and the grounding point is correctly marked with landmarks, and the grounding resistance is required to be ≤ 10 ohms, and the spot check is carried out every six months.  Lightening: It is required that the building has lightning rod or lightning protection belt facilities and is effectively grounded, and the distribution box is required to be equipped with a surge protector, and the lightning protection facilities are inspected every six months. |

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