

# Product Specification

|                |                              |
|----------------|------------------------------|
| Model:         | P3.91-2020-16S               |
| Specifications | P3.91 indoor SMD 3in1 Module |
| Structure:     | Lamp&IC                      |
| Lamp:          | 2020 Lamp                    |

## Part One: Parameter

### P3.91 Indoor Full Color Display SMD2020(1R1G1B)

|             |                             |                            |
|-------------|-----------------------------|----------------------------|
| Unit Module | Item                        | Parameter                  |
|             | Model Number                | P3.91-16S                  |
|             | Module size                 | 250mm*250mm                |
|             | Pixel pitch                 | 3.91mm                     |
|             | Pixels Density              | 65536 点/m <sup>2</sup>     |
|             | Pixel configuration         | 1R1G1B                     |
|             | Package mode                | SMD2020                    |
|             | Pixel resolution            | 64dots(W)*64 dots(H)       |
|             | Best viewing distance       | 3M~30M                     |
|             | Panel current               | 4-4.5A                     |
|             | Max Power                   | 22.5W                      |
|             | Module thickness            | 16mm                       |
|             | Weight                      | 0.35KG                     |
|             | Drive type                  | 恒流驱动 Constant drive        |
|             | Scan mode                   | 1/16 扫描 1/16scan           |
|             | Port type                   | HUB75E                     |
|             | Brightness of white balance | ≥800-1000cd/m <sup>2</sup> |
|             | Refresh frequency           | ≥1920HZ                    |

## Part Two: Product Features

The 3mm ultra-small pixel pitch is adopted to achieve ultra-high resolution indoors, presenting an amazing high-definition image effect. With the feature of wide perspective, no matter viewed from the top, the bottom, the left or right, the color is still true, gorgeous, to meet the needs of different angles of view. Using three-in-one LED, RGB color mixing effect, so that the color performance more gorgeous, more realistic image.

The screen body occupies small volume, the box body weight is light, the indoor high density full color screen, the display image is exquisite and realistic, the table paste packaging technology, the uniformity, the brightness, the Angle of view is good, realizes the fast installation and disassembly, saves your precious time and the labor cost.

#### ◆ LED lamp

The 2020 black lamp is packaged with high grade chip from world-renowned manufacturers, which fully guarantees the service life and display quality of the display screen.

#### ◆ Driver IC

High refresh rate, high gray constant current drive IC from the world's leading manufacturers, excellent driving performance, stability and reliability.

#### ◆ PCB board

Multi-layer circuit design is adopted to ensure uniform current distribution of lamp board, good heat dissipation, prevent the appearance of color blocks under low gray condition, and enhance the ability of anti-electromagnetic interference.

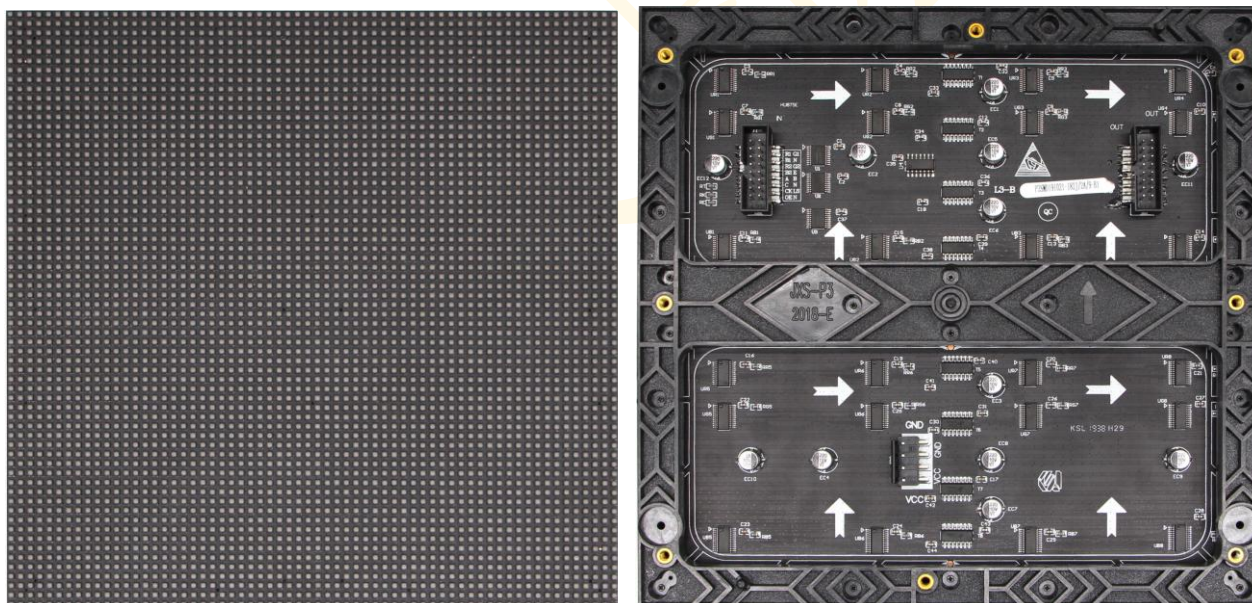
#### ◆ Connector

Using high quality 1U gold-plated connector, no wire connection in the box, stable and reliable.

#### ◆ Drive and control

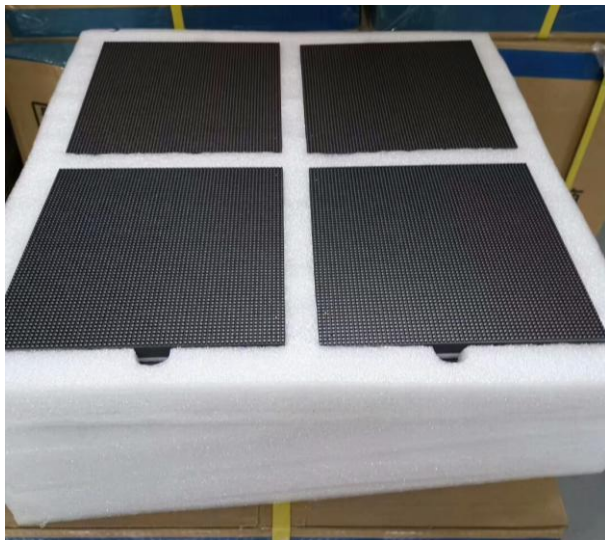
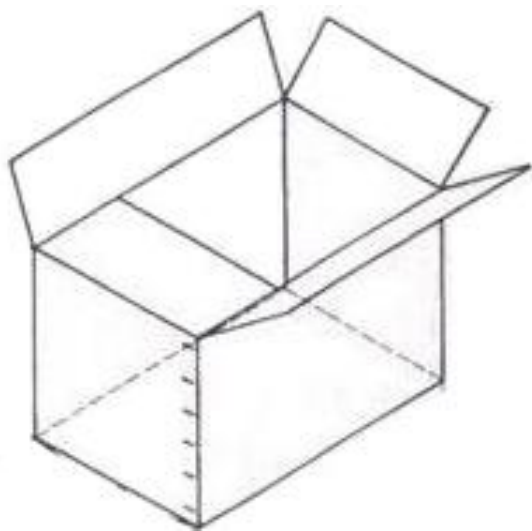
Dedicated 16BIT high grey level, high refresh drive constant current IC, special blanking circuit, protection LED, prevent sudden wave leakage

### Part Three: Module Pictures



### Part Four: Packaging

High quality cartons are used for packaging, and the modules are equipped with Angle protector, which contains pearl cotton Angle protection, effectively avoiding product damage caused by collision during handling and transportation.



### Part Five: Packaging( Display installation structure simple diagram)

## ▼ 多种安装方式，满足客户的不同需求

A variety of installation methods to meet the different needs of customers



## Applications:

Hall of government building, hall of enterprise and institution, conference room, exhibition hall, trade building, stage, party scene, etc.

## Part Six: Notice

### Environment

- 1.This product is indoor display screen;
- 2.Avoid using in high temperature, high humidity, high acid/base/salt environment;
- 3.Keep away from flammable materials, gases and dust;
4. The normal operating ambient temperature of this product is  $-20\sim 50^{\circ}\text{C}$ , and the best ambient temperature is  $-10\sim 40^{\circ}\text{C}$ ;
5. Storage temperature is  $-30\sim 60^{\circ}\text{C}$ , avoid storage in high temperature, high humidity, high acid/alkali/salt environment;Keep away from flammable materials and gas storage;
- 6.Avoid strong collision during transportation and avoid collision of sharp objects.

## Operation

1. The power terminal of this product shall not be connected backwards ;
2. If the product fails during the warranty period, please send it back to our company for repair or repair under the guidance of our after-sales staff ;
3. In the process of disassembling/assembling the product, be sure to operate carefully to avoid tools bumping into the product ;
4. Lightning protection and anti-static work should be done during operation and use.The box and the steel structure shall be earthed ;
5. During the use of the product, the power supply should not be turned on or off continuously, and the operation interval between the two should be at least 1 minute ;
6. This product cannot be closed for a long time. It is recommended to use it once half a month and power it for 4 hours.In high humidity environment, it is recommended to use once a week with 4 hours of electricity ;
7. This product is not allowed to play the highest brightness of all white screen for more

than half an hour, it is recommended to play dynamic video mainly.

## Clean

If cleaning the surface of the module, please use a soft bristle brush and wipe gently. Do not use any liquid material to clean the LED module surface, otherwise the LED may be damaged.

## Part Seven:Wiring operation diagram



Note\* Our company will continue to upgrade and improve the existing products. Specifications are subject to change without notice. We have the right to interpret the specifications, models and technical indicators of the products.