

# Indoor LED

## Product Specification

Model	P2.5
Specification	P2.5 indoor surface mount three-in-one module
Module	Light driver integrated
Lamp beads	2020/2121 Lights

## 一、 Main technical parameters

### Indoor full color P2.5

#### P2.5 Indoor Full Color Display SMD (1R1G1B)

	Item	Parameter
Modules Unit Module	Product Model Number	P2.5-32S
	Module Structure	Premium quality hard plastic /Die-cast aluminum ( cabinets only die-cast Aluminium )
	Module Surface	Anti-rust anti-corrosion nano sprayed surface, Seamless bezel-less design for uniform display, Optional GOB.
	Module size	320 mm* 160 mm
	Cabinet size	640mm *480mm * 45mm
	Cabinet Weight	3.4 kg
	Pixel pitch	2.5 mm
	Pixels Density	160000 points/m <sup>2</sup>
	Contrast Ratio	5000:1, 12,000:1
	Viewing Angle	170 H / 170 V
	Pixel configuration	1R1G1B
	LED Package    Package mode	SMD 2020/ SMD 2121
	Module Pixel resolution	128 dots(W)* 64 dots(H)
	Color Depth	16 bi
	Best viewing distance	2.5M ~ 30M
	Panel current	4-4.5A

	Module maximum power consumption Max Power	36 W
	Module thickness	1.6 mm
	Module weight	0.4 KG
	Drive type	Constant drive
	Scan mode	1/32scan
	Port type	HUB75E
	Brightness of white balance	700 nits / 900 nits/ 1000 nits
	Color Temperature	3000-16,000 Adjustable
	Refresh frequency	≥ 3840 Hz
	Refresh Rate:	≥ 90 Hz
	Module Life	100000 working hours
	Other Features	<ul style="list-style-type: none"> <li>• 24/7 working operation</li> <li>• Modular design</li> </ul>
	Optional add on surface	GOB (Glue on Board)
	Optional add on android module	<p>Live Announcement + Digital Signage, Emergency alert system, Emergency broadcast system in which emergency messages, key notices, can be sent to the SMD through Lan network within the college in form of video, text, images through mobile app, Direct data transmit through mobile phone/tablet, website link and dms(Document management system)</p>

## 2. Product Features:

With 2.5mm ultra - small dot pitch, ultra - high resolution is achieved indoors, presenting an amazing high-definition image effect. With wide viewing angle, the colors are still real and gorgeous no matter you look from top to bottom or left to right, meeting the needs of viewing from different angles. With three-in-one LED, RGB color mixing effect is good, making the colors more vivid and the images more realistic.

The screen occupies a small volume, the box is light, and it is an indoor high-density full-color screen. The displayed image is delicate and realistic. It has surface mount packaging technology, uniformity, brightness, and good viewing angle. It can be quickly installed and disassembled, saving your valuable time and labor costs.

- ◆ LED Light

The 2020/2121 black light, which is packaged with high-end chips from world-renowned manufacturers , fully guarantees the service life and display quality of the display.

- ◆ Driver IC

It adopts high refresh rate, high grayscale constant current driver IC from world-renowned top manufacturers, with excellent driving performance, stable and reliable.

- ◆ PCB board

The multi-layer circuit design ensures uniform current distribution on the light

board, good heat dissipation, prevents color blocks from appearing under low grayscale conditions, and enhances anti-electromagnetic interference capabilities.

- ◆ Connectors

Using high-quality 1 U gold-plated connectors, there is no wiring connection inside the box, which is stable and reliable.

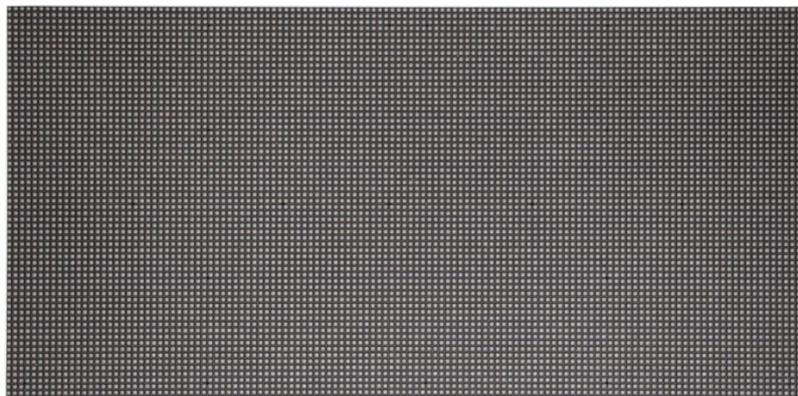
- ◆ Drive and control

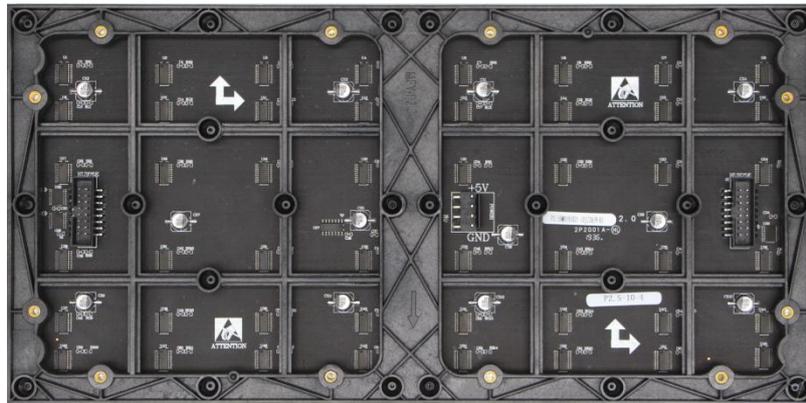
Dedicated 16 BIT high grayscale, high refresh drive constant current IC, unique blanking circuit, protect LED, prevent surge leakage

- ◆ Optional Surface (GOB)

The GOB SMD LED display module uses advanced Surface Mounted Device (SMD) LEDs with Glue-on-Board (GOB) protection technology, where a transparent epoxy layer covers the LED surface to provide enhanced durability and protection against dust, moisture, and physical impact. The display supports full-color 1R1G1B pixel configuration.

### 3. Module physical picture display





#### 4. Cabinet display Photos



#### 5. Precautions

##### Usage Environment

1. This product is an indoor display ;
2. Avoid using in high temperature, high humidity, high acid / alkali / salt environment ;

3. Keep away from flammable substances, gases and dust ;
4. The normal operating environment temperature of this product is -20~50°C, and the optimal environment temperature is -10~40°C;
5. The storage temperature is -30~ 60 °C. Avoid storage in high temperature, high humidity, high acid / alkali / salt environment; keep away from flammable items and gases .
6. Avoid strong collisions during transportation and avoid collisions with sharp objects ;

## 6. Operate

1. The power terminals of this product must not be connected in reverse ;
2. If this product fails during the warranty period, please send it back to our company for repair, or repair it under the guidance of our after-sales personnel ;
3. When disassembling/assembling the product, be sure to operate carefully to avoid hitting the product with tools ;
4. During operation and use, lightning protection and anti-static work should be done; the box and steel structure should be grounded ;
5. When using this product, the power cannot be turned on and off continuously. The interval between the two operations should be at least 1 minute .
6. This product cannot be turned off for a long time. It is recommended to use it once every half a month and power it on for 4 hours. In a high humidity environment, it is recommended to use it once a week and power it on for 4 hours .
7. This product is not allowed to play full white images at the highest brightness for more than half an hour. It is recommended to play dynamic videos as the main content .

## 7. Cleaning

If you want to clean the surface of the module, please use a soft brush to brush it gently. Do not use any liquid substance to clean the surface of the LED module, otherwise it may damage the LED.

Note: Our company will continue to upgrade and improve existing products . Specifications are subject to change without prior notice . The right to interpret the product specifications, models and technical indicators belongs to our company.