

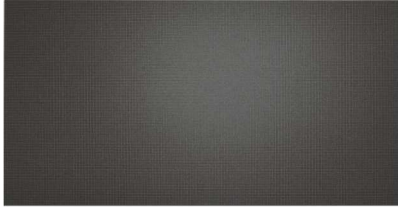
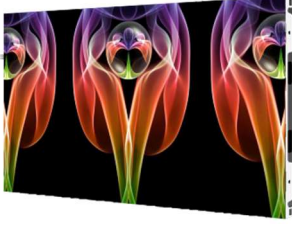

# SHENZHEN RUI SHI MING TECHNOLOGY CO.,LTD

Factory & Office: The second and third floors of the Jinkaijin Factory Building, Paddy Field Neighborhood Committee, Shilong Community, Shiyan Street, Baoan District, Shenzhen City



## SPECIFICATIONS

<b>Product name</b>	<b>Led Display Screen</b>
<b>Product model</b>	<b>P1.86 – xxxx.xxxx.xx</b>
<b>Version No</b>	<b>V2.0</b>
<b>Release Date</b>	<b>2023-01-16</b>

<b>Model</b>		P1.86 – xxxx.xxxx.xx										
<b>(1) LED chip</b> (Specifications may vary depending on different supplier product codes)												
No.	Color	Iv (mcd)			Δd (nm)			IF (mA)/ Vf (V)				
		Min	Ave	Max	Min	Ave	Max					
1	Red chips	12	18	24	610	620	630	5/2				
2	Green chips	20	25	30	510	520	530	2/3				
3	Blue chips	40	45	50	450	470	490	2/3				
<b>(2) Package</b>		To achieve the best white balance setting, the ratio of brightness for the three colors is required 3:6:1 roughly.										
1	LED lamp type				SMD 3 IN 1, Copper material							
2	Standard size led lamp				1515							
3	LED lamp structure				1R1G1B (1Red 1 Green 1 Blue)							
4	Distance between 2 LED lamps				1.86mm							
<b>(3) LED module</b>		<p>(Standard cabinet. Cabinets can vary depending on the characteristics of the screen including: Style, size, thickness, material).</p> 										
1	Module resolution (W×H)							172 pixel * 86 pixel				
2	Module dimension (W×H)							320 (mm) x 160 (mm) (Product thickness can be customized from 12mm ~ 20mm depending on the model of the back PCB)				
2	Pixel tolerance							≤0.3 (mm)				
4	Module tolerance							≤0.5 (mm)				
5	Calibration data storage							Support				
6	electromagnetic compatibility(EMC)							Support				
<b>(4) LED cabinet</b>								 				
1	Cabinet resolution (W×H)	344 pixel * 258 pixel										
2	Module arrangement (W×H)	2 pcs × 3 pcs										
3	Cabinet flatness	≤1mm										

## Specifications Pl. 86

4	Cabinet dimensions(W×H)	640 mm × 480 mm <i>(The thickness of the cabinet ranges from 35mm - 75mm depending on the model and model of the back PCB on the module)</i>
5	Aspect ratio	4:3
6	Cabinet weight	G.W.4,5kg (±0.2 kg) <i>(Accessories not included)</i>
7	Signal&power output interface	RJ45&OHM adapter
8	System backup	Power&signal backup
9	Install	Front&rear access
10	Maintenance	Full front maintenance
<b>(5) LED display</b>		
1	Physical density	288.906 pixel/m <sup>2</sup>
2	Brightness (White color temperature 6,500K)	≥ 400cd/ m <sup>2</sup> ~ 1950cd/m <sup>2</sup> (adjustable)
3	Viewing angle (H/V)	140°/140°
4	Screen flatness	≥95%
5	Chromaticity uniformity	±0.003
6	Contrast ratio(max)	≥ 5.000:1
7	IP rating (Front/Backside)	IP41/20 <i>(The protection standard can be better if the product is manufactured according to GOB/COB standards)</i>
<b>(6) Control system</b>		
1	Grayscale	8 Bit ~ 22 Bit <i>(When the gray scale is &gt; 18 Bit, it is necessary to have a signal transmission device capable of ensuring the gray scale at this threshold)</i>
2	Driving mode	1/43S
3	Frame rate	60fps / Sec <i>(Can work well with a control device that multiplies the input frequency to 360 fps /sec)</i>
4	Refresh rate	≥ 3840Hz / Sec ~ 7680Hz / Sec (adjustable)
6	Color temperature	2.000K- 15.500K (adjustable)
7	Brightness adjustment	Manual/Automatic/Remote (programming) control with 255 levels for each color (R, G, B)
8	Pixel-level calibration	Brightness and colorfulness adjustment
9	Control method	Synchronous
10	Control distance	CAT5, Cat 6 cable < 100m. If the distance is longer, it is recommended to use single-mode/or multi-mode fiber optic cable transmission method: maximum support distance < 20Km)
11	OS platform	Windows 7/8/10/11, Mac Os

12	Input signal interface	Compatible with most popular signal types today HDMI (1.3/ 1.4/ 2.0/ 2.1), DVI (SL, DL), SDI (3G, 12G), VGA, CVBS.... and other signal types compatible via a suitable image processor	
<b>(7) Screen operation</b>			
1	Input voltage	AC: 200V-240V, 50-60Hz	
2	Max. power consumption	≤460 W/m <sup>2</sup>	
3	Ave. power consumption	≤230W/m <sup>2</sup>	
4	Continuous working time	≥7×24hrs	
5	MTBF	≥10.000hrs	
6	LED lifetime (max)	100.000hrs	
7	Discrete LED failure rate	≤0.0001 (factory settings: 0)	
8	Constant LED failure rate	0.001%	
9	Overall LED failure rate	≤0.00001 (factory settings: 0)	
10	Screen temperature rise	≤5°C	
11	<b>Environment</b> <i>(Need a method to protect or restart the device's operating process according to the Aging method if the system has not been used for a long time, has the phenomenon of humidity, high electromagnetic charge)</i>	Working temperature	-20°C - +50°C (Recommendations)
		Storage temperature	-30°C - +65°C (Recommendations)
		Operating humidity	15% - 90%RH (no condensation)
		Storage humidity	10% - 95%RH (no condensation)
12	Production technology	ISO 9001, 14001, 27001, 45001	
13	Quality certification	CCC, FCC, RoHS, CE EMC, CE LVD... and a number of other standards that apply specifically to each specific market	

**II.Features**

- Cabinet design

The weight of a single Cabinet is only 5kg and the thickness is only 32mm. Save installation and transportation costs, easily meet more stringent installation environment standards and the ultimate pursuit of the beauty of the whole screen.

- Golden Ratio

The cabinet has a 16:9 golden ratio, which can easily achieve ultra-high-definition resolutions such as 2K, 4K, 8K, and 16K, and restore the display effect point-to-point.

- Seamless stitching

The die-casting molding process adopts high-precision CNC processing, which can easily realize seamless splicing. The splicing tolerance is controlled within ±0.1mm. With the six-direction automatic adjustment of the XYZ axis of the module and the design of the large module, the ultra-high flatness is achieved.

- Full front maintenance

Modular design: module, HUB (depending on model), receiving card, power supply can be easily maintained before. The maintenance speed is more than 5 times higher than that of traditional products, which greatly shortens the maintenance time of customers.

- Display effects

High contrast, low brightness, high brush and high gray, the contrast between light and dark is more obvious, which effectively benefits the details of the picture, restores the true color, and the picture has no smear. More than 28 trillion color display, easy to achieve stunning colors, enhance the sense of technology and visual impact.

- Ultra wide viewing angle

The viewing angle of the LED screen reaches 140°, and the picture is uniform, clear and natural at all angles.

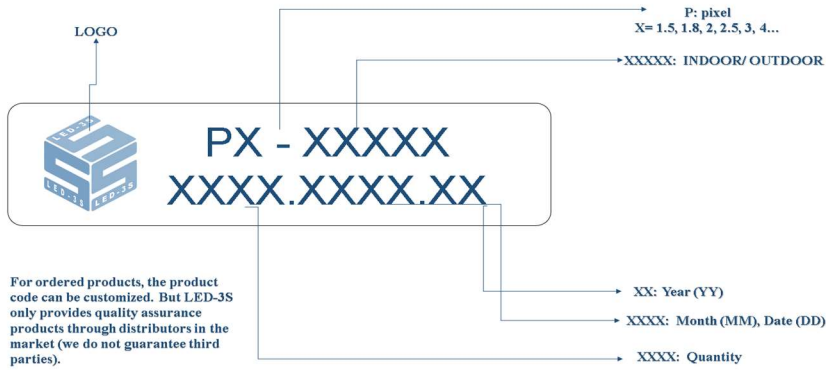

- Super energy management, dynamic energy saving

Adopt high-efficiency chip light extraction technology, high-efficiency heat dissipation design, flip-chip technology and dynamic energy-saving technology to effectively achieve green energy saving

**Note:** All technical parameters given may vary due to specific/real situation. All such specific parameters should be referred to according to those on the contract documents.

3S trademark has been registered for international trademark protection. Any organization or individual that uses a trademark without the official written permission of the owner is a serious violation of property law.

**Product identification rules:**

On the product	On the packaging
 <p>LOGO</p> <p>P: pixel X= 1.5, 1.8, 2, 2.5, 3, 4...</p> <p>XXXX: INDOOR/ OUTDOOR</p> <p>PX - XXXXX XXXX.XXXX.XX</p> <p>XX: Year (YY) XXXX: Month (MM), Date (DD) XXXX: Quantity</p> <p>For ordered products, the product code can be customized. But LED-3S only provides quality assurance products through distributors in the market (we do not guarantee third parties).</p>	<p>The packaging carries the brand/logo LED-3S.</p>  <p>Number of products, details are announced by the label of the packaging before export</p>