



## **Technical Data Sheet**

### **P4 SMD RGB INDOOR LED DISPLAY**

### **(Die-casting Aluminum Cabinet)**



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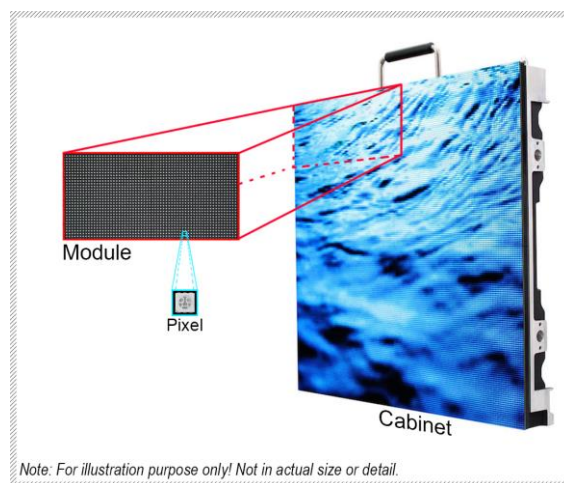
## Summary

Hisun's P4 high resolution LED display (indoor) is designed for interior use only. High brightness makes it visible and vivid in well illuminated rooms. Multimedia such as images, animations, motion pictures and be played.

## Product Specification

### 1. Pixel Parameters

Pitch	4 mm
Light Source	1R1PG1PB (2121 SMD)
Brightness	$\geq 1500 \text{ cd/m}^2$
Red Wavelength	$625 \text{ nm} \pm 2 \text{ nm}$ (200~239 mcd)
Green Wavelength	$520 \text{ nm} \pm 2 \text{ nm}$ (460~530 mcd)
Blue Wavelength	$470 \text{ nm} \pm 2 \text{ nm}$ (125-145 mcd)
Viewing Angle	$\geq 160^\circ \pm 10^\circ$ (horizontal) $\geq 160^\circ \pm 10^\circ$ (vertical)



### 2. Module Parameters

Pixel Density	62,500 dots/m <sup>2</sup> (5,806 dots/ft <sup>2</sup> )
Module Size	256 mm x 128mm x 13.26mm (10" x 5" x 0.5")
Module Weight	320g (9.8 oz.)
Module Resolution	64 x 32 dots
Power	23.5 Watt (max)
Brightness	$\geq 1500 \text{ cd/m}^2$
Viewing Angle	$\geq 160^\circ$ (horizontal) $\geq 160^\circ$ (vertical)
Leveling	$\leq 0.5\text{mm}$ between two pixels
Scan Mode	1/32 (constant current)



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### 3. Cabinet Parameters

Cabinet Size	512mm x 512mm x 76 mm (20" 20" x 3")
Cabinet Weight	3.2 kg (7 lb.)
Module number per cabinet	2 x 4 (vertical by horizontal)
Cabinet Resolution	128 x 128 dots
Power	188 Watt (max)
Brightness	$\geq 1500 \text{ cd/m}^2$
Cabinet Material	Die-casting Aluminum
Gap	$\leq 0.5\text{mm}$ between two cabinets



### 4. Display Parameters

Grey Level	4096
Colors	1024 for each red, blue, and green
Best Viewing Distance	4m ~ 32m (13ft ~ 105ft)
Brightness Level	0 ~ 255 (software control)
Location	Indoor / Dry
Bad Pixel Rate	$\leq 0.02\%$
Signal Input	VGA, DVI, HDMI
Brightness	$\geq 1500 \text{ cd/m}^2$

### 5. Other Parameters

Input Voltage	110 VAC $\pm 10\%$
Input Frequency	50 Hz
Forwarded Voltage	4.8 ~ 5.5 VDC
Working Temperature	-20°C ~ +50°C
Working Humid	10% ~ 90% RH
MTBF	> 10,000 Hours
Lifespan	75,000 ~ 100,000 Hours
Software Platform	Windows OS
Control Distance	<100m (using Cat5 Ethernet cable) <500m (using multi-mode fiber) <20,000m (using single-mode fiber)
Operating System	Windows 10, Windows 8.1, Windows 8
Control System	Graphic Card with DVI port Sender Card Receiver Card Function Card (auto adjusts brightness)

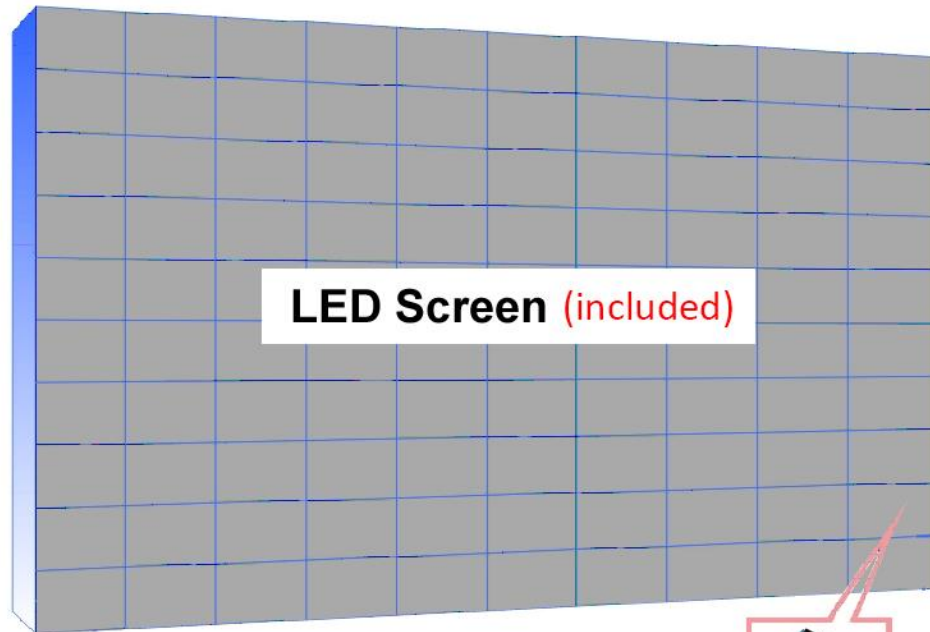


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(included)

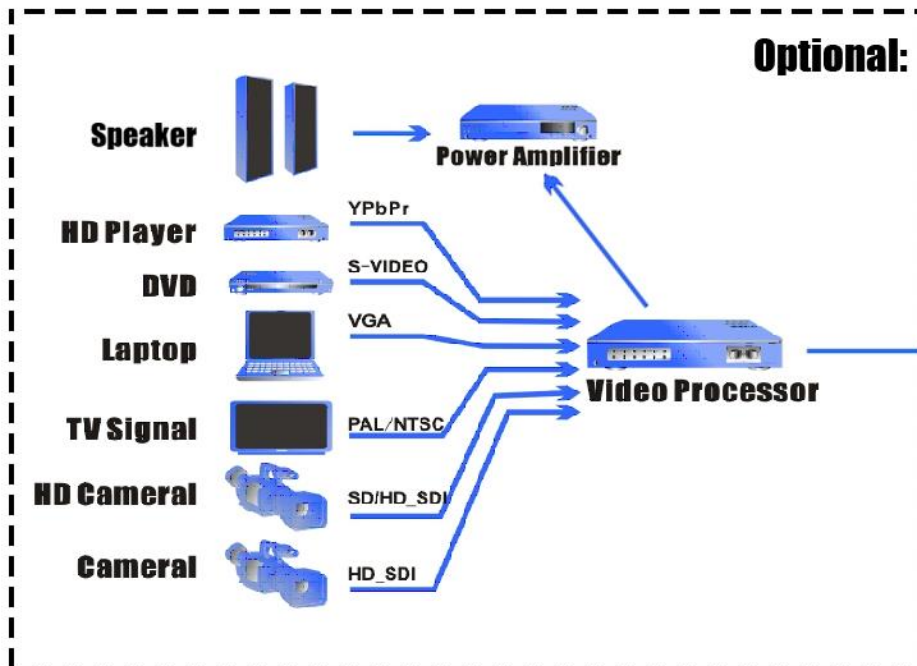
RS-232  
(Ethernet Cable)



(included)



**Control Computer**  
(included)



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# Typical Installation Illustration (A: flat installation)

*Note: The following steps and pictures are for illustration purposes only! For actual project, designs/structures/construction methods may vary, and need to be verified in field. Please follow instructions from designer and/or contractor.*

## 1. Design and build steel support structures.

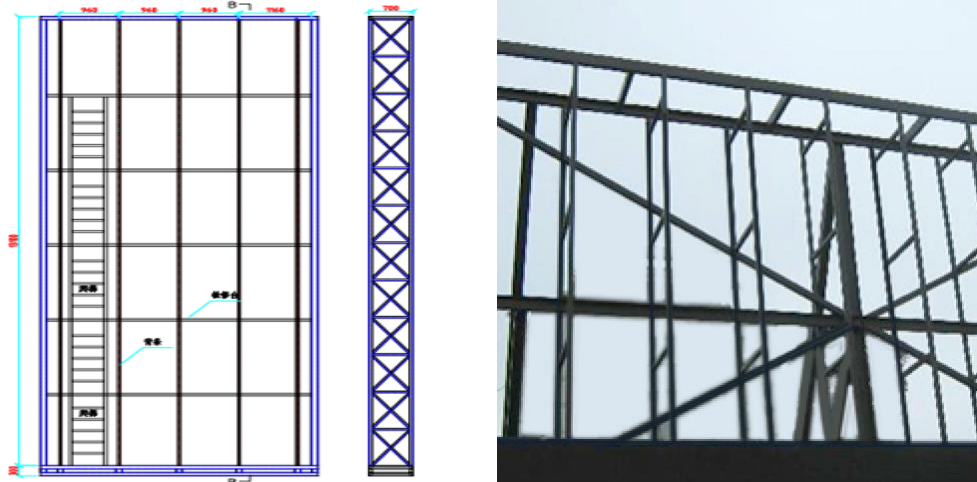


Fig.1 (Left) Steel Support structure design, and (right) actual steel support.

## 2. Mount LED cabinets onto the support structure.



Fig.2 Experienced workers are mounting LED cabinets.



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### 3. Final adjustment.



Fig.3 Connect all cables and adjust screen.

### 4. Finish up.



Fig. 4 The installation finishes after adjustment.



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A photograph showing three people working on a large, dark, curved structure, possibly a sculpture or architectural element. The structure is composed of many vertical and horizontal bars, creating a grid-like pattern. The people are positioned around the structure, with one person in the foreground wearing a striped shirt and gloves, another person in the middle ground wearing a dark shirt, and a third person in the background wearing a dark shirt. The background is a light, overcast sky.



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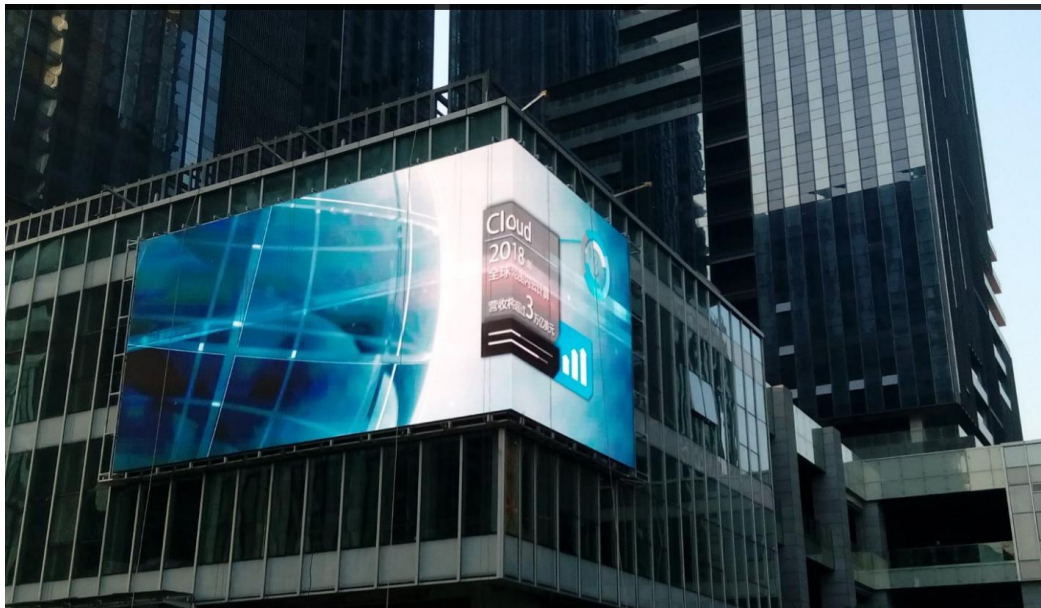


Fig. 4 The installation finishes after adjustment.



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## Important:

1. Ground wire and lighting rod: LED screen and steel support structures must be grounded. A lighting rod is recommended for high location usage. Resistance for ground wire must be less than 3 Ohm, such that strong current (caused by lighting) can be discharged into earth immediately.
2. Waterproof for support structures: For longer lifespan and safety, waterproof treatment is recommended for all support structures.
3. Well vented: To reduce the chance of over-heat, screen must be installed/placed in well vented places, with sufficient space for maintenances.



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