



PRODUCT SPECIFICATION

Series	P - Project Series	
Description	P2.5 Indoor Full Color Module	
Model	THC2.5 PRO	
Date	2025	
Manufacturer	Shanxi Hi-Tech Huajie Optoelectronic Technology Co., Ltd.	





服务热线/Service hotine: 400-101-6001 阿址: www.gkgd.cn

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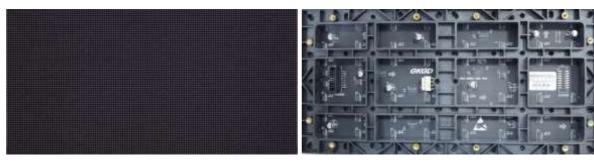
Description

This product is primarily used for indoor LED display, with external dimensions of 320*160 (mm), pixel pitch of 2.5mm, featuring SMD1515/2121 LED lamp beads, flame-retardant V-0 grade PCB, PC housing, and HUB75 interface.

The product offers stable and reliable quality, featuring high luminance, high contrast, an ultra-wide viewing angle, and other performance advantages. Its excellent display effects make it suitable for scenarios, including advertising various indoor media. performances, security dispatching, educational conferences, and exhibition displays.

Note: Please do not use this product in high temperature, high humidity, high salinity or alkali environmen

Appearance



2121

(Front) (Back)

Interface definition





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	R1	1	2	G1	
	B1	3	4	GND	
	R2	5	6	G2	
	B2	7	8	E	
İ	Α	9	10	В	
١	С	11	12	D	
	CLK	13	14	LAT	
	OE	15	16	GND	

引脚 1/0	信号 Signal	功能 Function
1,2,3	R1、G1、B1	第一组红色、绿色、蓝色数据
1,2,9	, 01, 51	Red, Green, Blue data of group 1
4、16	GND	信号地
41 10	OND	Signal Ground
F 6 7	D0 00 D0	第二组红色、绿色、蓝色数据
5,6,7	RZ, GZ, BZ	Red, Green, Blue data of group 2
0 0 40 44 40		行控制
8 . 9 . 10 . 11 . 12	E. A. B. C. D	Line Control
13 CLK	6114	时钟信号
13	CLK	Clock Signal
14 LAT	N. 1949	锁存信号
14	GND R2、G2、B2 E、A、B、C、D CLK LAT OE	Latch Signal
15	使能信号	
15	OE	Enable Signal

Technical parameters

Category	Item	Parameters and standards
	Outline dimension	L320mm×W160mm×D16mm
	Weight	0,27kg
Specifications	Pixel pitch	2.5mm
and size	Resolution	Module 128 pixels ×64 pixels Screen 160.000 dots/m ²
	Pixel composition	SMD1515/2121 1R1G1B full-color LED lamp Copper circuit wire, copper LED bulb legs (pure copper without iron)
	Signal interface	HUB75E
	Power interface	VH4P×1pcs
	Luminance of white balance	≥1500cd/m ²
Optical	Contrast ratio	12000:1
parameters	Color temperature	3000~21000K
	View angle , Best viewing distance	H≥170°, V≥170°, 2.5 – 200m







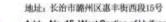


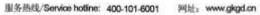






	Luminance uniformity	≥97%
Category	ltem	Parameters and standards
	Color uniformity	≤ ±0.003 Cx, Cy
	Supply voltage	High refresh: 4.5~5V Middle refresh: 5V
	Maximum current	4.5A
Electrical parameters	Average power (Save energy)	Module 7.5W/pcs@5V Screen 165W/m ²
	Maximum power	Module 21W/pcs@5V Screen ≤ 500W/m²
	Power supply method	AC220V/50Hz
	Earth leakage current	≤3.5mA/m²
	Refresh ratio Chip ICN	High refresh: ≥7680Hz DP3265S, DP3365S,
Processing performance	Refresh frame frequency	50~60Hz
	Scanning mode	1/32 scan
	Gray scale	14bit
	working temperature	-20℃÷45℃,10%~80%RH
Environmental requirements	Storage humidity	10% ÷ 80%RH
	Working humidity	-20°C÷50°C,10%÷85%RH
	Operating humidity	10% ÷ 85%RH
	IP Grade	IP 41 (12 - 16 bit grayscale.)
Other properties and	PCB PCB Flame-rating	UL94 V-0
usage	Lamp life time	≥100.000h



















		P _Z ≤1/10000
Category	Item	Parameters and standards
	Full screen pixel out of control rate	
	Area Pixel Defect Rate	P _Q ≤3/10000
	Maintenance mode	Front maintenance
	Load quantity	MAX7pcs@5V 40A
Reference standard SJT 11141-2017、SJT 11281-2017、GB/T4943.1-2022、GB17625.1-2022		1-2017、GB/T4943.1-2022、

LED SCREEN POWER SUPPLY

Model: KLF-H200V5-C3

Brand name: GKGD

Power: 200w

power output: 5v

Input voltage range: 190~264 VAC

Rated input voltage: 200~240 VAC

Output fluctuation: <500mV/0.1A/us ±5%

On delay time: ≤ 3.0S/230Vac

The output is protected against overvoltage and automatically returns to

normal operation after the overvoltage is removed.

Insulation resistance: DC 500V 10MΩ Min

Permanent operating temperature: -30~+60°C

Storage temperature: -40~+80°C

Working humidity: 10∼50% RH,

Storage humidity: 10∼90% RH cooling mode: natural

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Atmospheric pressure: 80-106 Kpa















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Lightweight aluminum steel frame maximum 375 grams

SIGNAL CARD

12 HUB75E ports, no conversion board needed

Support color rendering function to display true color, arbitrary frequency multiplication to eliminate scanning lines when taking pictures.

Support low brightness with high grayscale technology, all PWM chips, dual latches and general chips

Support HUB75 interface and arbitrary modules 1 ~32S

Max load 512*512 (256*1024)

Cautions

The processes of product storage, installation, usage, and maintenance must refer to the "Product Instruction Manual".





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