P1.25 SOFT MODULE SPECIFICATION

Specification model: HLT-P1.25-RGB-SMD

Specification description: PH1.25 Indoor surface mount three-in-one

Module structure: Light drive in one

Lamp Bead Specification: 110

1. The Main Technical Parameters

技术参数 Technical parameter: (T=25℃)

	Project	Parameters	Remarks
	Pixel pitch	1.25mm	
Basic	Pixel structure	1R1G1B	
parameters	Pixel density	$640000/m^2$	
	Module resolution	256 (W) * 128 (H)	
	Module size	320mm*160mm	
	Cabinet size	Customized	
	Single point brightness	Have	
	and chroma correction	llave	
Optical	White balance brightness	\geq 700cd/m ²	
parameters	Color temperature	3200K—9300K adjustable	
	Horizontal viewing angle	≥140°	
	Vertical viewing angle	≥120°	
	Visible distance	≥1.5m	
	Brightness uniformity	≥97%	

	Contrast	≥3000:1	
	Signal processing bits	16bits*3	
р ·		Category 5e twisted pair network cable	
Processing		(less than 100m)	
performance	Control method	Multi-mode optical fiber(100m~500m)	
		Single-mode optical fiber(500m~10Km)	
	Input signal mode	AV/CVBS/VGA/DVI/ HDMI/SDI/DP	
	Video playback capability	4K、8K ultra-high definition images	
	Drive mode	High gray scale constant current source driver IC	
	Grayscale	65536	
	Frame change frequency	≥60HZ	
	Refresh rate	3840HZ	
	Scanning method	1/64scan	
	Control method	Synchronize	
	Brightness adjustment range	Stepless adjustment from 0 to 100	
	Continuous working time	≥72Hours	
Usage	Typical life span	50, 000 Hours	
parameters	Protection level	IP43	
	Range of working temperature	-20 ℃ to 60 ℃	
	Working humidity range	10 %- 80% RH no condensation	
	Storage temperature range	-20 °C to 60 °C	
Electrical	Operating Voltage	DC:4.2-5V	
parameters	Power supply requirements	AC: $220 \times (1 \pm 10\%)$ V, $50 \times (1 \pm 5\%)$ Hz	
	Maximum power consumption	650 W/m ²	
	Average power consumption	230 W/m ²	

- 2. Soft screen materials and schematic diagram
 - Good heat dissipation performance, arbitrary splicing, seamless splicing
 - High refresh rate, high grayscale
 - Total black light, high contrast
 - ♦ No fan, silent
 - Seamless splicing and quick installation



厚度:1公分

Product information

◆ LED light

We use high-end chip-packaged LED lights from world-renowned manufacturers to provide customers with a variety of choices. At the same time, the service life and display quality of the display are fully guaranteed.

SMD full color 1010 series: full black body



Driver IC

It adopts high refresh rate, high grayscale constant current driver IC from the world's leading manufacturers, with excellent driving performance, stable and reliable.

◆ PCB board

The multi-layer circuit design is used to ensure uniform current distribution on the light panel and good heat dissipation, prevent color blocks from appearing under low grayscale conditions, and enhance anti-electromagnetic interference capabilities.

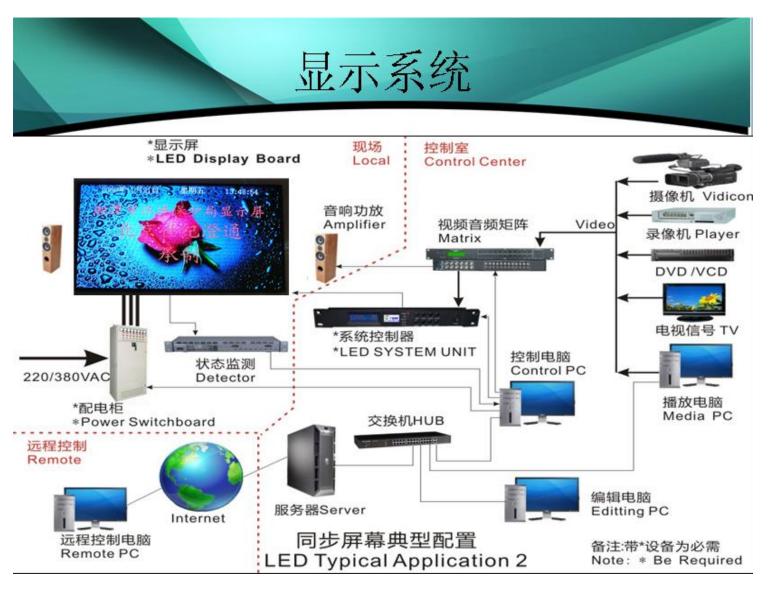
The boards are made from high-quality manufacturers in the industry: Shengyi, Jiantao (KB), etc.

Drive and control

Each module is controlled by an independent control card, which has higher integration, stronger stability, better display effect and high refreshed, dedicated 14BIT high grayscale, high refresh drive constant current IC, unique blanking circuit, protects LED, prevents surge

leakage; supports system multi-channel redundant backup, module point-by-point chromaticity correction, and double power supply backup.

System control topology diagram



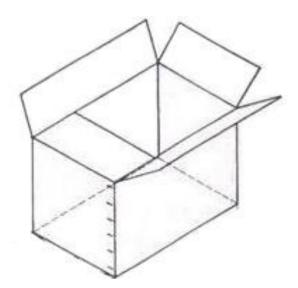
3. Reliability experiment

Category	Experimental	items	Refere standa		Experimental conditions	Duration	Acceptance criteria
			LE	D Lun	ninous tube		
Environmen tal experiment	Temperature cycle	JESD22-A104-A			C~25℃~100℃~25℃ D minutes,5 minutes,30 minutes,5 minutes	Loop 100 times	0/50
	Thermal shock	JESD22-A106		3	-40°C∼100°C 60 minutes,30 minutes	Loop 100 times	0/50
	High temperature storage	JIS C 7021 (1977)B-11			Ta=60℃ RH=90%	1000 hours	0/50
Lifespan experiment	Normal temperature life test	JESD2	2-A108-A		Ta=25℃ st conditions: when owered on and lit	1000 hours	0/50
	High temperature life experiment	JESD	22-A101		Ta =85℃ RH=85% st conditions: when owered on and lit	1000 hours	0/50
Mechanical vibration experiment	Mechanical vibration		STD-883 od 2007		minutes,20 to 2000Hz les, 4 minutes.Each,X,Y,Z		0/50
			LED	Finis	hed unit box		
Environmen tal storage experiment	Low temperature storage test	GB2	2423. 2	(-40 <u>+</u> room hours unifo no a out-o	storage for 4 hours at 2) OC and recovery at temperature for 4 , the display mode and rmity are normal with bnormalities and no f-control points.	8 hours	0/50
	High temperature storage test	GB2	2423. 2	(60± norm hours unifo no a	storage for 4 hours at 2)OC and recovery at al temperature for 4 , the display mode and rmity are normal with abnormalities and no -of-control points.	8 hours	0/50
Aging experiment	Normal temperature aging test				Ta=25°C urs of non-stop power and display playback	72 hours	0/50
	High	GB24	23.2-89	Under	the conditions of (40	8 hours	0/50

	temperature		$\pm 2)$ OC, power on for 8 hours		
	aging test		and perform inspections		
			every hour. The display mode		
			and uniformity are normal		
			with no abnormalities and no		
			out-of-control points.		
Mechanical	M 1 . 1		Vibration frequency is		
vibration	Mechanical vibration	GB6587 4-86	5HZ-55HZ-5HZ, amplitude	5 hours	0/50
experiment			0.19mm, 5 minutes		

4. Packing





Note: The 7-layer unit module is assembled in a carton using imported high-quality cartons.

Reminder of matters needing attention

Usage environment

- 1. This product is an indoor display screen;
- 2. Avoid use in high temperature, high humidity, high acid/alkali/salt environments;
- 3. Keep away from flammable items, gases and dust;
- 4. The normal operating ambient temperature of this product is $-20\sim50^{\circ}$ C, and the optimal ambient temperature is $-10\sim40^{\circ}$ 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 gas storage;

6. Avoid strong collisions and collisions with sharp objects during transportation;

Operate

- This product is powered by DC +5V (operating voltage: 4.5~5.2V). AC power supply is prohibited; the power terminals are prohibited from being connected reversely;
- 2. If this product is faulty during the warranty period, please send it back to our company for repair, or perform repairs under the guidance of our after-sales personnel;
- 3. When disassembling/installing the product, be sure to operate carefully to avoid tools hitting the product;
- 4. Lightning protection and anti-static work should be done during operation and use; the box and steel structure should be grounded;
- 5. During use of this product, the power cannot be turned on and off continuously. The two operations should be separated by at least 1 minute;

- 6. This product cannot be turned off for a long time. It is recommended to use it once every half 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 does not allow playing the highest brightness all-white picture for more than half an hour. It is recommended to play mainly dynamic videos;

Clean

To clean the surface of the module, please use a soft-bristled brush and brush gently. It is prohibited to use any liquid substance to clean the surface of the LED module, otherwise the SMD LED may be damaged.

Moisture-proof and storage requirements

1. After opening the package, SMD LED products must be stored in an environment with a temperature <30°C and a humidity <60%.

2. If the screen has not been used for more than 3 days, the preheating lighting method needs to be used every time the screen is lit: 30%-50% brightness is preheated for 4-8 hours, and then adjusted to normal brightness (80%- 100%) lights up the screen body to eliminate moisture so that there is no abnormality during use.

3. If the screen has not been used for more than 7 days, the preheating lighting method must be used every time the screen is lit: 30%-50% brightness is preheated for more than 12 hours, and then adjusted to normal brightness (80%-100%) %) lights up the screen to eliminate

moisture so that there is no abnormality during use.

The operation process is as follows:Lights up during preheating normal use





LED screen normal brightness

- More than 3 days, LED screen (30%-50% brightness) preheating for 4-8 hours
- More than 7 days, LED screen (30%-50% brightness) preheating for more than 12 hours

Note:

Our company will continue to upgrade and improve existing products. If the specifications change, we will notify you separately.

The right to interpret models and technical indicators belongs to our company.