

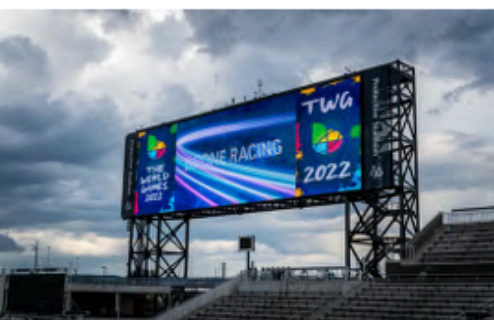
PRODUCT SPECIFICATION

Specification Model: HRLIP1.25- GOB - 64S

Specification Description: HRLIP1.25 Indoor SMT 3-in-1 Module

Module Structure: LED Lamp and Driving IC in one

Lamp Bead: GOB



PATENT CERTIFICATE



**11 utility model patents, 8 design patents,
and 9 computer software copyright registration certificates**

QUALIFICATION CERTIFICATE

ROYAL DISPLAY

**Passed 3C and energy-saving certification
Certified by CE, RoHS, FCC, RoHS, and FCC**



Part One: Parameter

HRLIP1.25 INDOORFULL COLOR DISPLAY(1R1G1B)

Unit Module	Module size	320mm*160mm
	Pixel pitch	1.25mm
	Pixels Density	638976dots/m ²
	Pixel configuration	1R1G1B
	Optical Protection	HDR / Active 3D / GOB support
	Pixel resolution	256dots(W)*128dots(H)
	Pixel Brightness Calibration	Per-pixel brightness calibration to ensure uniform luminance
	Processing Depth	18 bit +
	Color temperature	3000 – 15000K
	Contrast ratio	8000:1
	Brightness of white balance	≥550cd/m ²
	Refresh frequency	≥4800HZ
Control & Transmission	Control Box	Integrated with Remote Control (RC) and Power Supply Unit (PSU)
	Transmission Protocol	Smart data transmission, USB 3.1 standard
	Power & Signal	2-in-1 transmission cable using Type-C high-speed connection standard
	Connector Design	No orientation required; easy installation and maintenance
	Voltage Detection	Smart voltage monitoring system
	Data Management	Automatic intelligent calibration signal reading and data storage
	Integration	Power supply, HUB board, and receiving card combined into a unified system
Structural Design	Module Flatness	High precision, ultra-thin structure, strong and deformation-resistant
	PCB Connection	Linked using thermally conductive electromagnetic adhesive
	Safety Lock	Equipped with secure locking mechanism to prevent loose cable connections
	Material	Full aluminum housing for optimal heat dissipation
	Assembly	Simplified installation and maintenance
Smart Functions	Chipset Features	Anti-interference, smart configuration, intelligent color temperature and brightness control, data storage management
	Protection	Smart over-current, over-voltage, and over-temperature protection system

Part Two: Test Description

Item	Technical parameter
Ground connection	There is a protective grounding terminal, grounding resistance is not greater than 0.1Ω
Safety mark	The protective grounding terminal is marked, and there is a warning sign at the fuse and switch power. After the marking durability test, the marking is firm and legible.
Leakage current to ground	Leakage current to ground does not exceed $3.5\text{mA}/\text{m}^2$ (effective value)
High and low temperature operation	Put the module into the environmental test chamber at 55°C , energize it for 24h, and then restore it to normal temperature; put it into the environmental test chamber at -20°C , energize it for 24h, and then restore it to normal temperature, the product appearance structure and function are normal after the test.
High and low temperature storage	Put the module into the temperature 100°C environmental test chamber for 24h, and recover 4h at room temperature after the test; put it into the temperature -40°C environment for 24h, and recover 4h at room temperature after the test, the appearance structure and function are normal after the test.
Humidity and heat load	Put the module into the temperature $(50\pm 2)^{\circ}\text{C}$, relative humidity 87%~90% environmental test chamber, power on for 8h, check every hour, the products are normal before and after the test.
Constant humidity and heat	Put the module into the environmental test chamber with temperature $(50\pm 2)^{\circ}\text{C}$ and relative humidity 87%~90%, power on for 48h. Then after 4h of recovery at room temperature, the product is normal in appearance, structure and function.
Salt spray test	Under the conditions of salt solution PH value 7.4~0.5, concentration 5% NaCl, temperature $35^{\circ}\pm 1$ degree, continuous spraying 72h, no rusting and corrosion on the surface of the display after the test, the performance is intact and the operation is normal.
Shipping test	According to the three-stage circulation conditions of GB/T 6587 for the module, the appearance structure and function of the sample are normal after the test.
Fire retardant	Tested according to BS476-7 flame retardant standard, the display meets the CLASS 1 standard and the fire rating reaches UL94 V-0
Moisture resistance	In the range of 10%RH-95%RH, the display works normally.

Part Three: Product Features

Adopting 1.25mm ultra-small pixel pitch, it realizes ultra-high resolution indoors and presents a breathtaking high-definition image effect. With the characteristic of wide viewing angle, the color is still true and gorgeous no matter viewing from up, down, left or right, meeting the need of viewing from different angles.



Adopting three-in-one LED with good RGB color mixing effect, which makes the color performance more brilliant and image more realistic.



The LED screen occupies a small volume, light weight box, indoor high-density full-color screen, the display image is delicate and realistic. Surface-mounted packaging technology, high uniformity, good brightness and viewing angle, to achieve rapid installation and disassembly, saving your valuable time and labor costs.



LED LAMP

GOB with high-end chips from world-renowned manufacturers fully guarantees the service life and display quality of the display.



DRIVING IC

High refresh rate and high grayscale constant-current driving ICs from world-renowned top manufacturers are used for excellent driving performance, stability and reliability.



PCB

The multi-layer circuit design is adopted to ensure uniform current distribution and good heat dissipation of the lamp board, prevent color blocking in low gray conditions, and enhance the capacity to resist electromagnetic interference.



CONNECTOR

Use high quality 1U gold-plated connectors, no plate-wire connection inside the cabinet, stable and reliable.



DRIVE AND CONTROL

Dedicated 16BIT high gray scale, high refresh drive constant current IC, with a special fading circuit to protect LED and prevent glitch leakage.



Part Four: Module Pictures, Cabinet



Part Five: Packaging



The packaging is made of high quality carton, and the module is equipped with corner protectors, including pearl cotton corner protectors, which can effectively avoid damage to the product caused by collision during handling and transportation.

Part Six: Installation Method

APPLICATION SCOPE:

Halls of government buildings, halls of enterprises and institutions, conference rooms, exhibition halls, commercial buildings, stages, evening party scenes, etc.

▼ 多种安装方式，满足客户的不同需求

A variety of installation methods to meet the different needs of customers



Part Seven: Reminders

Use Environment

1. This product is an indoor display.
2. Avoid use in high temperature, high humidity, high acid/alkali/salt environments.
3. Keep away from flammable objects, gases and dusts.
4. The normal operating ambient temperature of this product is -20~50°C, the best ambient 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; away from flammable items, gas storage.
6. Avoid strong collisions and sharp objects during transportation.

Cleaning

If you clean the surface of the module, please use a soft brush to gently brush. Prohibit the use of any liquid substances to clean the surface of the LED module, otherwise it may damage the LED.

Operation

1. The power terminals of this product are prohibited from being connected backwards.
2. If the 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 staff.
3. In the process of disassembling/assembling the product, be sure to operate carefully and avoid tools hitting the product.
4. The operation and use process should do a good job of lightning protection, anti-static work; the box and steel structure should be grounded.
5. The product in the process of use, not continuous power on and off, the two operations should be separated by at least 1 minute.
6. This product can not be closed for a long time, it is recommended to use once a half month, power on for 4 hours; in high humidity environment, it is recommended to use once a week, power on for 4 hours.
7. This product is not allowed to play the highest brightness of the full white screen for more than half an hour, it is recommended to play dynamic video-based.

Part Eight : Connecting Operation Diagram



Note: Our company will continue to upgrade and improve the existing products, specifications are subject to change without notice, the product specifications and technical indicators are explained to our company.