High-Definition P2.5 Pitch LED Display Module for Professional Environments with High Refresh Rate and Brightness

Our Product Introduction

Basic Information

- Place of Origin: Shengzhen, China
- Brand Name: Googol
- Certification: CE、ROHS、FCC
- Model Number: P2.5

Product Specification

- Module Size(mm):   320*160*14.2mm
- Pixel Density: 160000Dots/m2
- Brightness: ≥500cd/m2
- Refresh Rate: 3840HZ
- Operating Environment: Indoor
- Weight: 0.41kg±0.01kg
- Service Life: ≥10000hours
- Interface Type: HUB75

Product Description

1.Product Overview

The Indoor Full-Color P2.5 Pitch LED Display Panel is a high-definition display solution designed for premium indoor applications. Featuring advanced micro-pitch technology and exceptional color performance, this product delivers ultra-smooth, grain-free visuals, making it ideal for professional environments with stringent image quality requirements. Its high refresh rate and brightness ensure stable, fluid motion graphics while maintaining excellent visibility even under strong ambient light—perfect for commercial displays, command centers, stage performances, and more.

2.Main parameters

Pixel pitch: 2.5mm
LED packaging: SMD2020
Module Size: 320*160*14.2mm
Pixel density: 160000 Dots/m²
Refresh rate: 3840Hz

3.Product features

Ultra-HD Display: P2.5 fine pixel pitch with a density of 160,000 dots/㎡ for seamless, crystal-clear viewing even at close range.
Optimal viewing distance ≥7.5m, suitable for mid-to-large indoor spaces with wide, distortion-free viewing angles.
Fluid Motion Performance: 3840Hz ultra-high refresh rate eliminates motion blur and flickering, ensuring buttery-smooth playback.
Supports high-frame-rate content, perfect for sports broadcasts, fast-paced animations, and more.

4.Applicable scenarios

Commercial Displays
Entertainment
Conference & Broadcasting

Parameter			
Product Model	P2.5	Brightness(nits)/Scan	≥500 cd/㎡
Pixel Pitch	2.5mm	Input Voltage	4.2-5V
Density (dots/m^2)	160,000	Refresh Rate(Hz)	3,840Hz
Led Lamp	SMD2020	Working Humidity	10%~65%RH (no condensation)
Module Pixel	128*64	IP Rating	IP30
Module Size (mm)	320*160mm	Optimal Viewing Distance	≥7.5m

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