



P1.86

INDOOR LED DISPLAY



- Ultra-Fine Pixel Pitch – 1.86 mm spacing for ultra-clear, high-definition indoor visuals.
- Wide Viewing Angle – Bright, vivid, and accurate colors from every direction.
- High Brightness & Refresh Rate – ≥ 800 cd/m² and ≥ 1920 Hz for smooth, flicker-free images.
- Compact & Lightweight – 321*160 mm module, only 0.6 kg for quick and easy installation.



LED Module Technical Parameters

Product: P1.86 Indoor Full Color LED Display (SMD1212 – 1R1G1B)

Item	Parameter
Model Number	P1.86
Module Size	321 × 160 mm
Pixel Pitch	1.875 mm
Pixel Density	284,444 dots/m ²
Pixel Configuration	1R1G1B
LED Package	SMD1515
Module Resolution	128 × 128 dots (W × H)
Best Viewing Distance	1.8 m – 10 m
Panel Current	6 – 6.5 A
Max. Power Consumption	45 W
Module Thickness	16 mm
Module Weight	0.6 kg
Drive Type	Constant Current Drive
Scan Mode	1/32 Scan
Port Type	HUB75E
Brightness (White Balance)	≥600-1200 cd/m ²
Refresh Rate	≥1920 Hz
Ingress Protection (Front/Rear)	IP30 / IP20
Maintenance Type	Front Service
Life Span	≥ 100,000 hours



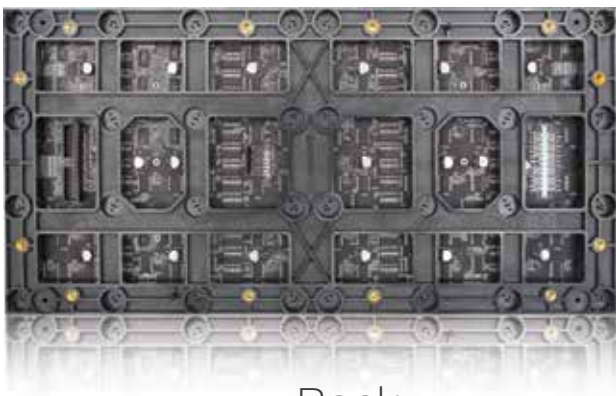
2. Product Features

- Ultra-Fine Pixel Pitch (1.86 mm): Enables ultra-high resolution indoors for stunningly clear and detailed visuals.
- Wide Viewing Angle: Delivers consistent, vivid colors from all directions.
- 3-in-1 SMD LED Technology: Superior RGB color mixing for lifelike and vibrant images.
- Lightweight & Compact: Small footprint and reduced weight allow easy installation and removal, saving both time and labor.
- Advanced SMD Packaging: Ensures brightness, uniformity, wide viewing angle, and stable performance.

3. Core Components

- LEDs: High-grade 1515 black LEDs with premium chips from world-renowned manufacturers, ensuring long lifespan and excellent image quality.
- Driving IC: High refresh rate, high grayscale constant current IC from top global manufacturers, ensuring superior driving performance and stability.
- PCB: Multi-layer circuit design for uniform current distribution, efficient heat dissipation, enhanced EMI resistance, and prevention of color block issues at low grayscale levels.
- Drive & Control: Dedicated 16-bit constant current IC with high grayscale and refresh capability, plus a unique shadow-elimination circuit to protect LEDs and prevent surge leakage.

Module Image Display



Back



Front



5. Packaging

- Packaged in high-quality cardboard boxes.
- Equipped with protective corner covers and pearl cotton inserts to prevent damage during handling and transportation.





6. Installation

Simple, efficient installation with modular design.

Application Areas: Government halls, corporate lobbies, conference rooms, exhibition centers, commercial complexes, stage performances, event venues, and more.

Lifting type

- The LED display is suspended from the ceiling using metal supports.
- Best suited for large venues like airports, train stations, shopping malls, or conference halls where wall or floor space is limited.



Mosaic Installation

- The LED screen is embedded into a wall, creating a flush, seamless appearance.
- Ideal for indoor applications in lobbies, control room or exhibition halls where aesthetics and space-savi are important.



Wall Style

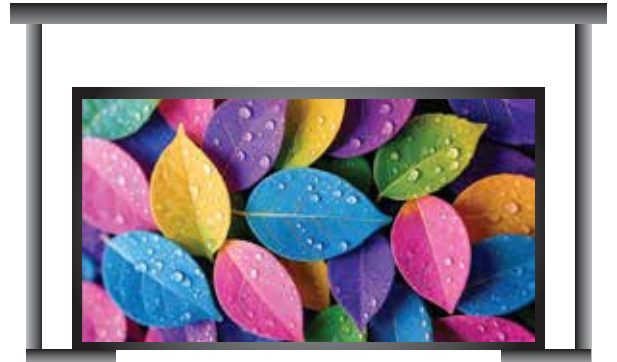
- The LED display is directly mounted on the wall surface.
- Simple, cost-effective installation for meeting room classrooms, advertising boards, or retail stores.





Hanging Type

- Similar to lifting, but designed with a top-mounted frame for support.
- Commonly used for indoor advertising, stage backdrops, or event halls.



Floor Style

- The LED display is fixed on a free-standing floor structure.
- Suitable for exhibitions, temporary events, or locations where wall mounting isn't possible.



Pole Mount

- The LED screen is installed on a single or dual pole stand, usually outdoors.
- Perfect for outdoor advertising, roadways, public squares, and information boards.





6. Usage & Safety Guidelines

Working Environment

- Indoor use only.
- Avoid high temperature, humidity, or corrosive (acid/alkali/salt) environments.
- Keep away from flammable materials, gases, and dust.
- Operating temperature: -20°C to $+50^{\circ}\text{C}$ (optimal: -10°C to $+40^{\circ}\text{C}$).
- Storage temperature: -30°C to $+60^{\circ}\text{C}$. Store in a dry, ventilated place away from corrosive substances and flammable materials.
- Avoid strong impact or sharp object collisions during transport.

Operation

- Do not reverse power terminal connections.
- If malfunction occurs during the warranty period, return to the manufacturer or repair under authorized after-sales guidance.
- Handle carefully during assembly/disassembly to prevent tool damage.
- Ensure proper grounding and protection against lightning and static electricity.
- Do not switch power on and off repeatedly within 1 minute.
- Avoid long-term shutdown:
 - Use at least once every 15 days, powered on for 4 hours.
 - In high humidity environments: use weekly for 4 hours.
- Do not display a full-white image at maximum brightness for more than 30 minutes. Dynamic video playback is recommended.

Cleaning

- Clean the module surface with a soft-bristle brush only.
- Do not use liquids or solvents, as these may damage the LEDs.





7. Wiring Diagram





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