P4 | INDOOR LED DISPLAY

- **Ultra-Fine Pixel Pitch** – 4.0 mm spacing for crisp and detailed indoor visuals.
- **Wide Viewing Angle** – Consistent, vibrant colors from every direction.
- **High Brightness & Refresh Rate** – ≥600 cd/㎡ and ≥1920 Hz for smooth, flicker-free images.
- **Compact & Lightweight** – 320 × 160 mm module, only 0.27 kg for quick and easy installation.

LED Display Parameters

Product: P4 Indoor Full Color LED Display

Item	Parameter
Model Number	P4
Module Size	320 × 160 mm
Pixel Pitch	4 mm
Pixel Density	62,400 dots/m²
Pixel Configuration	1R1G1B
LED Package	SMD2020
Module Resolution	80 × 40 dots (W × H)
Best Viewing Distance	4 m – 30 m
Panel Current	4 A
Max. Power Consumption	20 W
Module Thickness	12.3 mm
Module Weight	0.27 kg
Drive Type	Constant Current Drive
Scan Mode	1/20 Scan
Port Type	HUB75E
Brightness (White Balance)	≥600-1200 cd/㎡
Refresh Rate	≥1920 Hz
Ingress Protection (Front/Rear)	IP30 / IP20
Maintenance Type	Front Service
Life Span	≥ 100,000 hours

2. Product Features

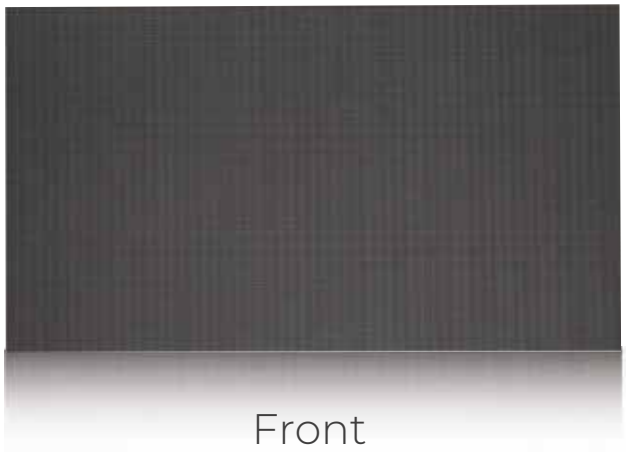
- Ultra-Fine Pixel Pitch (4 mm): Provides high resolution for vivid, detailed, and sharp indoor visuals.
- Wide Viewing Angle: Ensures accurate, consistent, and vibrant colors from any direction.
- SMD 3-in-1 Technology: Excellent RGB color mixing for richer, more realistic images.
- Lightweight & Compact: Small volume and lightweight design make installation and dismantling easy, saving time and labor costs.
- Advanced SMD Technology: Delivers high brightness, superior uniformity, stable performance, and outstanding image quality.

3. Core Components

- LEDs: High-grade 2020 black LEDs with premium wafers from globally recognized manufacturers, ensuring long lifespan and excellent display quality.
- Driving IC: High refresh rate and high grayscale constant current IC from leading manufacturers, delivering stable and reliable performance.
- PCB: Multi-layer circuit design for uniform current distribution, efficient heat dissipation, enhanced anti-interference capability, and prevention of color block issues at low grayscale levels.
- Drive & Control: Dedicated 16-bit constant current IC with high grayscale and refresh performance, plus a shadow elimination circuit to protect LEDs and prevent surge leakage.

Cabinet Image Display

Back



Front

5. Installation

- Supports quick and easy installation with simplified structural design.

Wall-Mounted Installation

- The most common type.
- The LED screen is fixed directly onto the wall using a metal frame.
- Ideal for conference rooms, auditoriums, showrooms, malls, and lobbies.
- Clean look, saves space.

Hanging / Suspended Installation

- The LED screen is hung from the ceiling using steel cables or brackets.
- Used where wall mounting isn't possible.
- Perfect for events, exhibitions, airports, or shopping malls.

Floor-Standing / Free-Standing Installation

- The LED display is mounted on a movable or fixed stand.
- Portable and flexible — can be repositioned anytime.
- Common in retail stores, events, and stage setups.

Curved or Creative Installation

- LED modules are shaped into curves or creative 3D designs.
- Adds visual appeal.
- Used for brand activations, experience centers, and premium interiors.

Cube / Column / Pillar LED Display

- Installed around pillars or columns to utilize vertical space.
- Used in malls, stadiums, and exhibition halls.

6. Usage & Safety Guidelines
Working Environment

- Indoor use only.
- Avoid high temperature, high humidity, or environments with corrosive gases (acid/alkali/salt).
- Keep away from flammable materials, gases, and dust.
- Operating temperature: -20°C to +50°C (optimal: -10°C to +40°C).
- Storage temperature: -30°C to +60°C. Store in a dry, ventilated environment away from corrosive substances and flammable materials.
- Avoid strong impact or contact with sharp objects during transport.

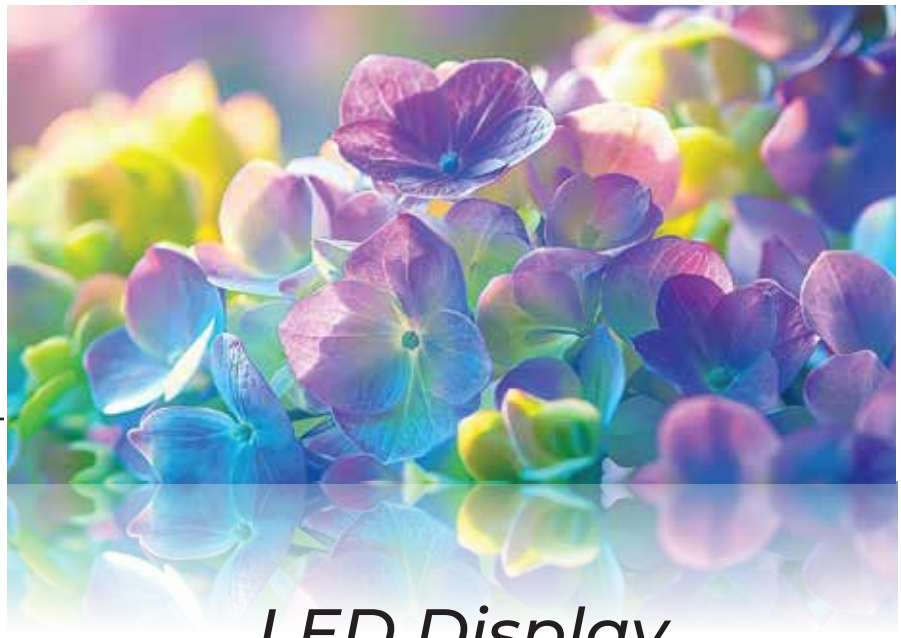
Operation

- Do not reverse the power terminal connections.
- For warranty repairs, return to the manufacturer or follow guidance from authorized after-sales personnel.
- Handle carefully during assembly/disassembly to prevent tool damage.
- Ensure proper grounding and protection against lightning and static discharge.
- Do not power on/off repeatedly within 1 minute intervals.
- Do not keep the product unused for long periods. Recommended usage:
- At least once every 15 days, powered on for 4 hours.
- In high humidity environments: at least once a week, powered on for 4 hours.
- Do not display an all-white image at maximum brightness for longer than 30 minutes. Prefer dynamic video content for better performance and lifespan.

Cleaning

- Use a soft-bristle brush for surface cleaning.
- Do not use liquid cleaners, as they may damage the LEDs.

6. Wiring Diagram



LED Display Controller

Video Splicer

Video Matrix

Switcher

Computer

Surveillance Camera

Wireless Router

Video Camera

Mobile Device

Input Source

Media Player

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