P3 | INDOOR LED DISPLAY

- **Ultra-Fine Pixel Pitch** – 3.0 mm spacing for sharp, high-definition indoor visuals.
- **Wide Viewing Angle** – Realistic, vivid colors from every direction.
- **High Brightness & Refresh Rate** – ≥700 cd/㎡ and ≥1920 Hz for smooth, flicker-free performance.
- **Compact & Lightweight** – 192x192 mm module, only 0.35 kg for easy installation and handling.

LED Module Technical Parameters

Product: P3 Indoor Full Color LED Display

Item	Parameter
Model Number	P3
Module Size	192 × 192 mm
Pixel Pitch	3.0 mm
Pixel Density	111,111 dots/m²
Pixel Configuration	1R1G1B
LED Package	SMD2020
Module Resolution	64 × 64 dots
Optimal Viewing Distance	3 – 30 m
Panel Current	4 – 4.5 A
Max Power Consumption	21 W
Module Thickness	16 mm
Module Weight	0.27 kg
Drive Type	Constant Current
Scan Mode	1/32 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

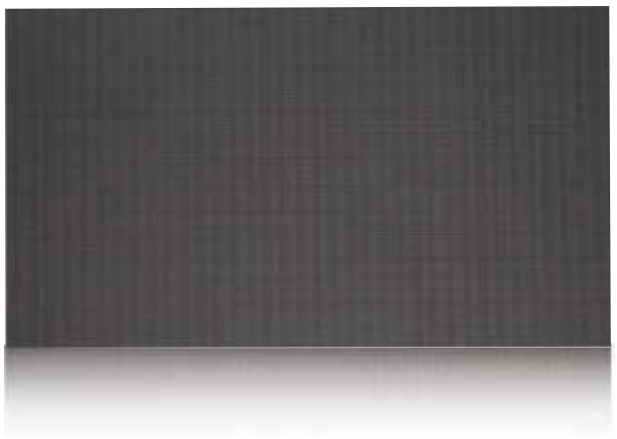
- High-Resolution Display – 3.0 mm fine pixel pitch delivers ultra-clear, high-definition indoor visuals.
- Wide Viewing Angle – Vivid and accurate colors from every direction, ensuring excellent visibility in any setting.
- True-to-Life Colors – 3-in-1 RGB LEDs provide superior color mixing, producing vibrant, realistic images.
- Lightweight & Space-Saving – Compact design with reduced weight for easy handling, installation, and maintenance.
- Advanced SMT Technology – Guarantees high uniformity, brightness, and wide viewing angles with fast installation and removal.

3. Key Components

- LED Lights – Premium 2020 black LEDs from globally renowned manufacturers, ensuring long lifespan and superior image quality.
- Driving IC – High-refresh, high-grayscale constant current IC from top international suppliers, delivering stable and reliable performance.
- PCB Board – Multi-layer PCB design for uniform current distribution, efficient heat dissipation, anti-color-blocking at low grayscale, and strong anti-EMI capability.
- Connectors – High-quality 1U gold-plated connectors, with no ribbon cables inside the cabinet, ensuring stability and reliability.
- Drive & Control – Dedicated 16-bit high grayscale, high refresh IC with unique shadow-elimination circuit to protect LEDs and prevent surge leakage.

Cabinet Image Display

Back



Front

5. Installation

- Supports fast and secure installation with simplified structure.
- Applicable for: government halls, corporate lobbies, conference rooms, exhibition halls, commercial centers, **stages, and live event venues.**

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 Guidelines
Working Environment

- Indoor use only.
- Avoid high temperature, humidity, acidic/alkaline/salty conditions.
- Keep away from flammable materials, gases, and dust.
- Operating temperature: -20 ~ +50 (optimal: -10 ~ +40).
- Storage temperature: -30 ~ +60 .

• Control & Operation

- Do not reverse power polarity.
- For warranty repairs, return to factory or follow after-sales guidance.
- Handle carefully during assembly/disassembly to avoid tool damage.
- Ensure lightning protection, anti-static measures, and grounding of cabinets/structures.
- Avoid frequent power on/off switching (minimum 1-minute interval).
- Do not keep the display powered off for long periods (recommended: power on at least once every 2 weeks for 4 hours; in humid environments, once a week).
- Avoid displaying full-white images at maximum brightness for more than 30 minutes; dynamic content playback is recommended.

• Cleaning

- Clean only with a soft brush.
- Do not use liquid cleaners – may cause permanent LED damage.

6. Wiring Diagram

LED Display

LED Display Controller

Video Splicer

Video Matrix

Switcher

Computer

Surveillance Camera

Wireless Router

Video Camera

Mobile Device

Media Player

Input Source

basil

Contact Us

KAN Universal Pvt. Ltd.
367, First Floor, Kothi Wala Bagh,
Ashok Vihar Phase 4, Delhi-110052
www.kanuniversal.com
info@kanuniversal.com | +91-88788 72022