P2 | INDOOR LED DISPLAY

- **Ultra-Fine Pixel Pitch** – 2.0 mm spacing for sharp, high-resolution indoor visuals.
- **Wide Viewing Angle** – Bright, vivid, and consistent colors from every direction.
- **High Brightness & Refresh Rate** – ≥800 cd/㎡ and ≥1920 Hz for clear, flicker-free images.
- **Compact & Lightweight** – 320 × 160 mm module, only 0.37 kg for easy handling and installation.

LED Display Parameters

Product: P2 Indoor Full Color LED Display

Item	Parameter
Model Number	P2
Module Size	320 × 160 mm
Pixel Pitch	2 mm
Pixel Density	250,000 dots/m²
Pixel Configuration	1R1G1B
LED Package	SMD1515
Pixel Resolution	160 (W) × 80 (H) dots
Best Viewing Distance	2 m – 20 m
Panel Current	3.5 – 4 A
Max Power Consumption	20 W
Module Thickness	14.7 mm
Module Weight	0.369 kg
Drive Type	Constant current
Scan Mode	1/40 scan
Port Type	HUB75E
Brightness (White Balance)	≥ 600-1200 cd/m²
Refresh Rate	≥ 1920 Hz
Ingress Protection (Front/Rear)	IP30 / IP20
Maintenance Type	Front Service
Life Span	≥ 100,000 hours

2. Product Features

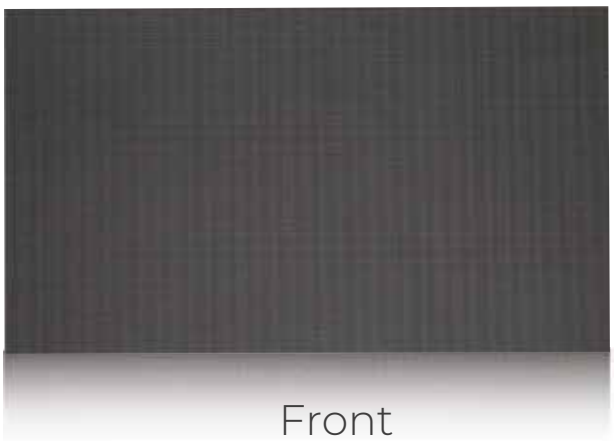
- Ultra-Fine Pixel Pitch – 2 mm spacing delivers stunning high-resolution images for indoor applications.
- Wide Viewing Angle – Consistent brightness and vivid colors from every direction.
- Superior Color Performance – 3-in-1 SMD LED technology ensures excellent RGB color mixing for lifelike visuals.
- Lightweight & Compact – Slim module design, easy to install and remove, reducing time and labor costs.
- Advanced SMT Technology – Ensures brightness uniformity, durability, and long service life.

Component Highlights

- LEDs – Premium SMD1515 black-matte LEDs with high-quality chips from leading global manufacturers, ensuring long lifespan and excellent image quality.
- Driving IC – High-refresh, high-grayscale constant current ICs from top manufacturers, delivering stable and reliable performance.
- PCB – Multi-layer design for even current distribution, better heat dissipation, reduced low-gray color blocks, and enhanced EMI resistance.
- Drive & Control – Dedicated 16-bit constant current IC with high grayscale, high refresh, and shadow-elimination circuit for LED protection and surge prevention.

Cabinet Image Display

Back



Front

4. Installation

Suitable for seamless integration into LED display cabinets.
Application Areas:
Government halls, enterprise lobbies, conference rooms, exhibition centers, shopping malls, stages, event venues, and more.

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.

5. Usage & Safety Instructions
Working Environment

- Indoor use only.
- Avoid high temperature, high humidity, or corrosive (acid/alkali/salt) environments.
- 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; avoid corrosive or humid storage conditions.
- Prevent strong impacts and contact with sharp objects during transport.

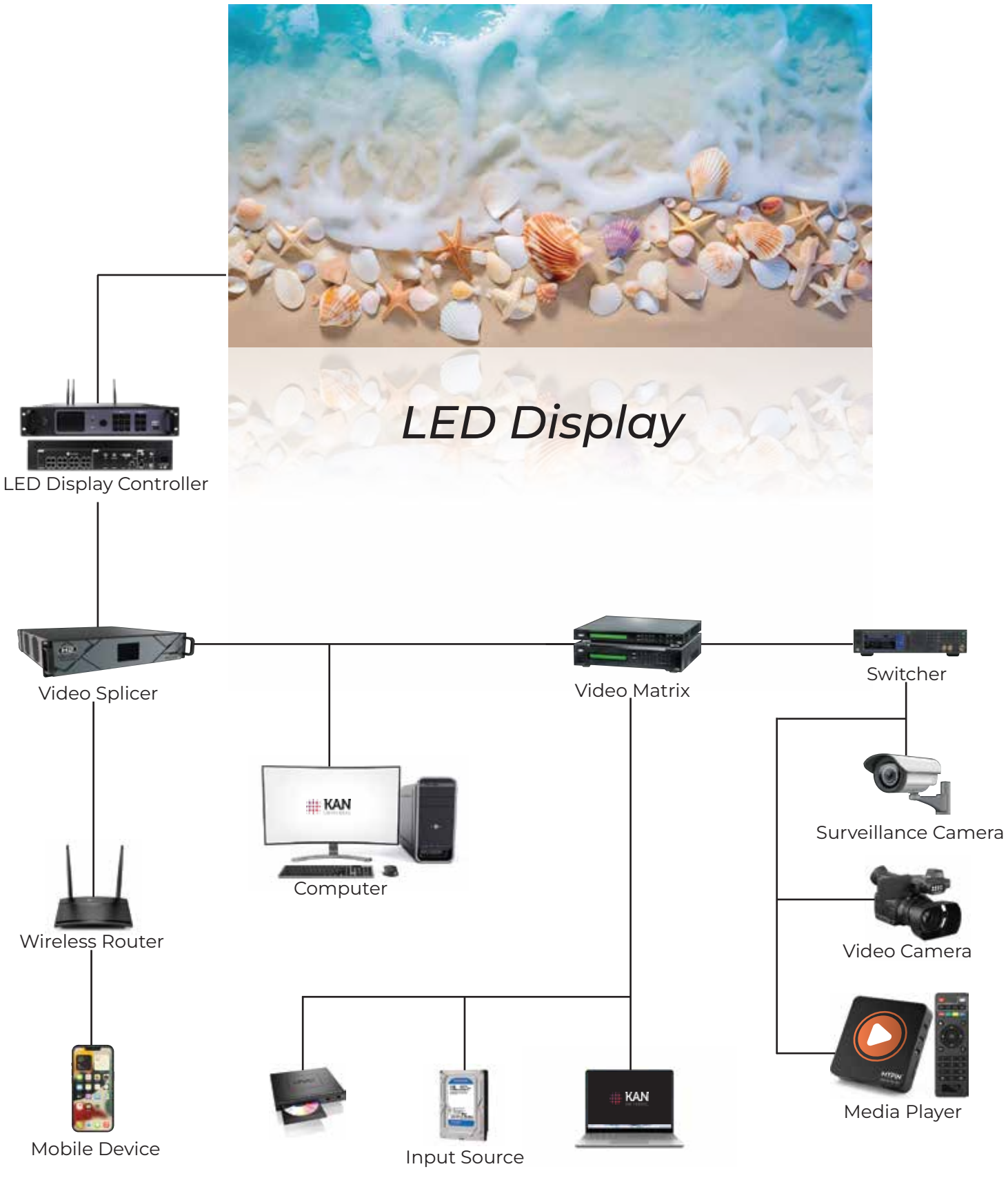
Operation & Control

- Do not reverse power connections.
- For warranty repairs, return to the manufacturer or proceed under after-sales guidance.
- Handle carefully during assembly/disassembly to avoid tool damage.
- Ensure grounding of cabinets and steel structures; protect against lightning and static electricity.
- Do not rapidly switch power ON/OFF; wait at least 1 minute between operations.
- Do not keep the screen powered off for extended periods. Recommended:
- Power on once every 2 weeks for at least 4 hours.
- In humid environments, power on weekly for 4 hours.
- Do not display full-white at maximum brightness for more than 30 minutes; dynamic content is recommended.

Cleaning

Use a soft brush to gently clean the module surface. Do not use any liquid cleaners, as this may damage the LEDs.

6. Wiring Diagram



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