



# P<sub>2.5</sub> | INDOOR LED DISPLAY



- Ultra-Fine Pixel Pitch – 2.5 mm spacing for crystal-clear, high-definition indoor visuals.
- Wide Viewing Angle – Vivid and consistent colors from every direction.
- High Brightness & Refresh Rate –  $\geq 800$  cd/m<sup>2</sup> and  $\geq 1920$  Hz for sharp, flicker-free images.
- Compact & Lightweight – 320 × 160 mm module, only 0.4 kg for easy handling and installation.



# LED Display Parameters

Product: P2.5 Indoor Full Color LED Display

Item	Parameter
Product Model	P2.5
Module Size	320x160
Pixel Pitch	2.5mm
Pixel Density	160,000 pixels/m <sup>2</sup>
Pixel Configuration	1R1G1B
LED Package	SMD2020
Module Resolution	128 (W) × 64 (H) dots
Best Viewing Distance	2.5m – 30m
Panel Current	4 – 4.5A
Max Power Consumption	36W
Module Thickness	16mm
Module Weight	0.4kg
Drive Type	Constant Current Drive
Scan Mode	1/32 Scan
Port Type	HUB75E
Brightness (White Balance)	≥600-1200 cd/m <sup>2</sup>
Refresh Rate	≥1920Hz
Ingress Protection (Front/Rear)	IP30 / IP20
Maintenance Type	Front Service
Life Span	≥ 100,000 hours

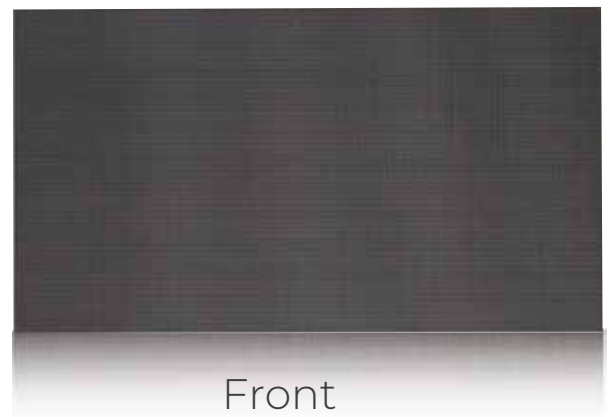
## • 2. Product Features

- Ultra-Fine Pixel Pitch (2.5mm): Achieves ultra-high resolution indoors, delivering stunning, high-definition visuals.
- Wide Viewing Angle: Colors remain vivid, natural, and consistent when viewed from any direction—top, bottom, left, or right.
- RGB 3-in-1 LED: Superior color mixing, vibrant performance, and realistic imagery.
- Compact & Lightweight Design: Saves space, reduces cabinet weight, and ensures fast installation and dismantling—saving both time and labor costs.
- Advanced SMD Technology: Ensures excellent brightness uniformity, high image quality, and wide viewing angles.

## 3. Core Components

- LEDs: High-quality 2020 LEDs, using premium black-surface packages from globally recognized manufacturers, ensuring long lifespan and superior image quality.
- Driving IC: High refresh rate, high grayscale constant current IC from world-leading suppliers, delivering stable and reliable performance.
- PCB Board: Multi-layer design ensures uniform current distribution, excellent heat dissipation, prevents color blocks at low grayscale, and enhances EMI resistance.
- Drive & Control: Dedicated 16-bit high grayscale, high refresh IC with unique shadow elimination circuitry, protecting LEDs and preventing surge leakage.

## Cabinet Image Display



## 6. Installation

Simplified LED screen installation structure available.

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



## 6. Precautions

### Working Environment

Designed for indoor use only.

Avoid high temperature, humidity, or corrosive environments (acid/alkali/salt).

Keep away from flammable materials, gases, and dust.

Operating Temperature:  $-20 \sim +50$  (Optimal:  $-10 \sim +40$  ).

Storage Temperature:  $-30 \sim +60$  . Keep away from corrosive, humid, or flammable storage environments.

Prevent strong impacts and sharp object damage during transportation.

## Operation Guidelines

Do not reverse-connect the power terminals.

If malfunction occurs during the warranty period, return to our company or repair under authorized after-sales guidance.

Handle carefully during assembly/disassembly to avoid tool damage.

Ensure proper grounding, lightning, and static protection.

Do not switch power on/off repeatedly; maintain at least a 1-minute interval.

Do not keep the display powered off for long periods:

Normal use: Power on at least once every 15 days for 4 hours.

High-humidity environments: Power on once a week for 4 hours.

Do not display a full-white screen at maximum brightness for more than 30 minutes; dynamic video playback is recommended.

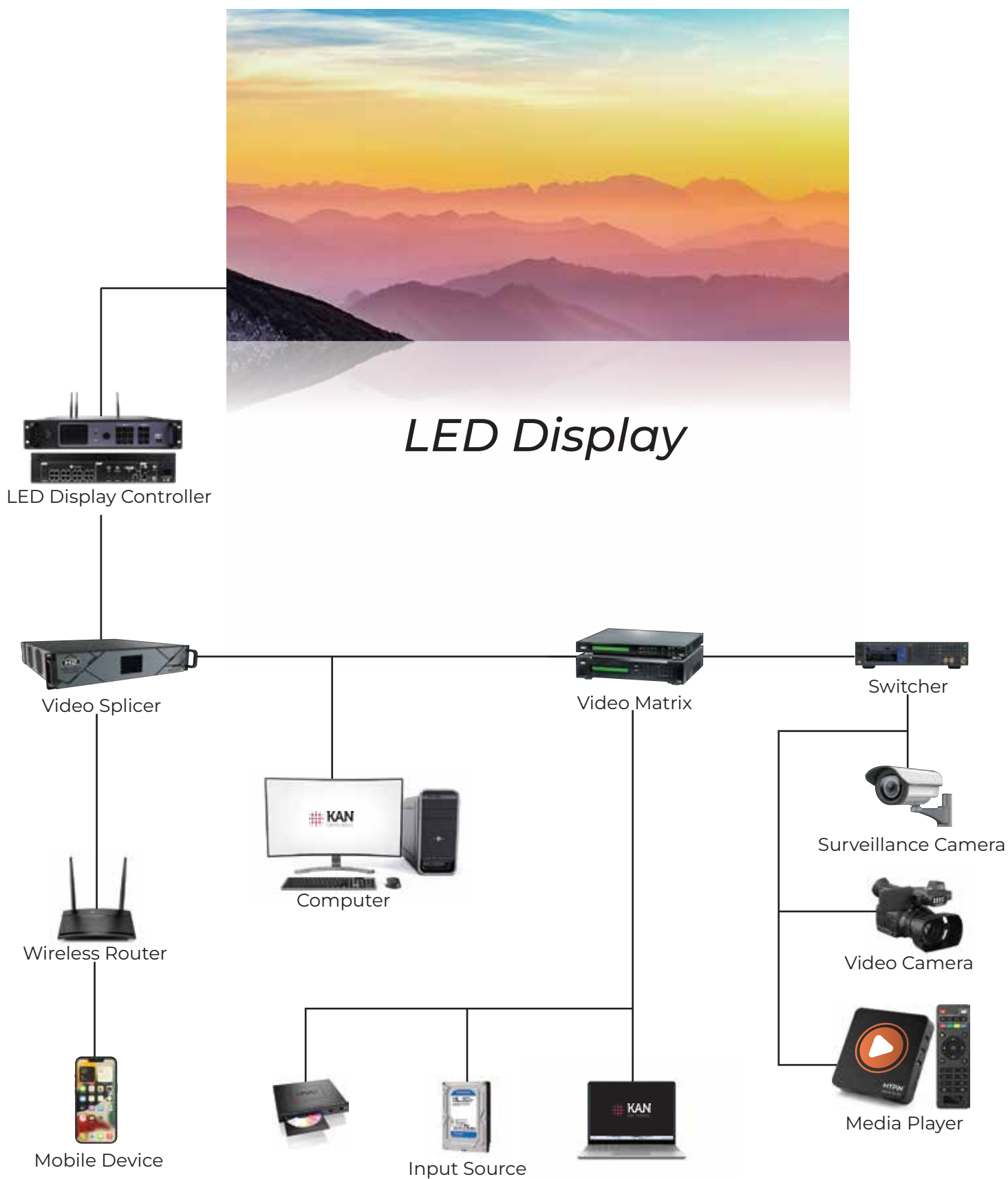
## Cleaning

Use a soft-bristle brush only for cleaning.

Do not use liquids or chemical cleaners, as they may damage the LEDs.



## 7. Wiring Diagram





## Contact Us

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