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P2.5 | 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** – **≥800 cd/㎡** and **≥1920** Hz for sharp, flicker-free images.
- **Compact & Lightweight** – 320 × 160 mm module, only 0.4 kg for easy handling and installation.

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LED Module Technical 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/㎡
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/㎡
Refresh Rate	≥1920Hz
Ingress Protection (Front/Rear)	IP30 / IP20
Maintenance Type	Front Service
Life Span	≥ 100,000 hours

2. Product Features

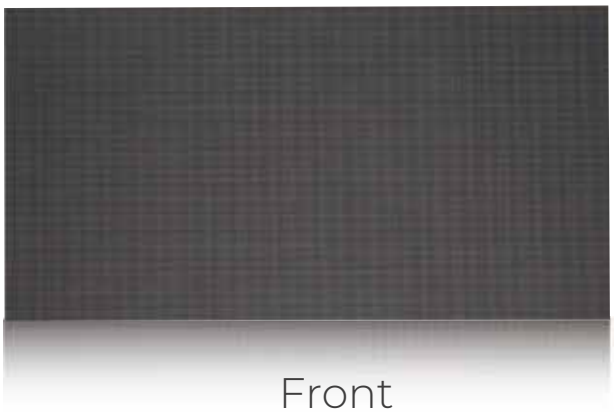
- Ultra-Fine Pixel Pitch (2.5mm): Achieves ultra-high resolution indoors, delivering stunning, high-definition visuals.
- Wide Viewing Angle: Colors remain vivid, natural, and consistent when viewed from any direction—top, bottom, left, or right.
- RGB 3-in-1 LED: Superior color mixing, vibrant performance, 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.

Module Image Display

Back



Front

5. Packaging

- High-quality carton packaging.
- Each module is protected with corner guards and pearl-cotton inserts.
- Provides effective protection against shocks and collisions during handling and transportation.

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.

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 rooms, or exhibition halls where aesthetics and space-saving are important.

Wall Style

- The LED display is directly mounted on the wall surface.
- Simple, cost-effective installation for meeting rooms, 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. 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 ~ +50 (Optimal: -10 ~ +40).
Storage Temperature: -30 ~ +60 . Keep away from corrosive, humid, or flammable storage environments.
Prevent strong impacts and sharp object damage during transportation.

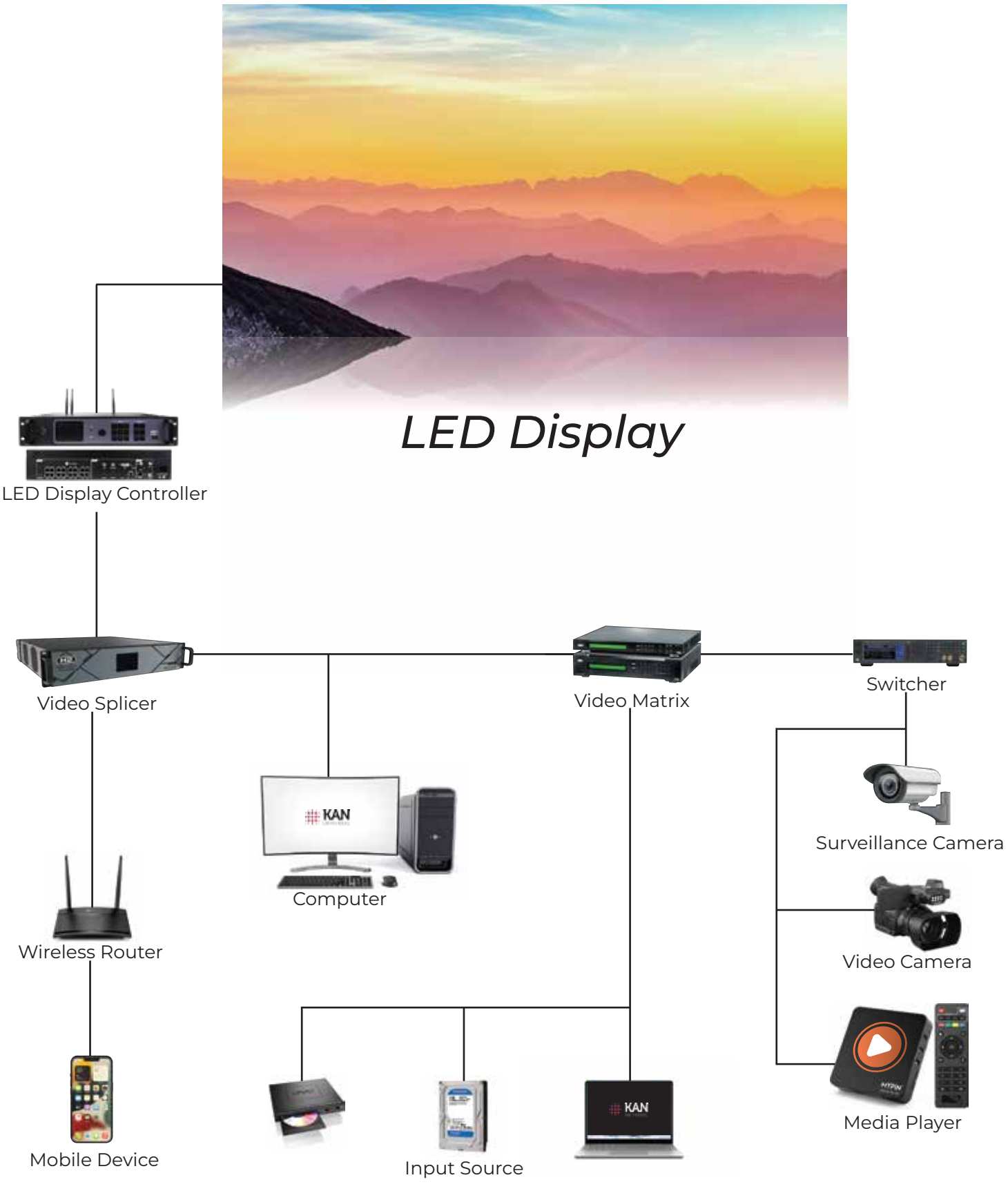
Operation Guidelines

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



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