



P5.0

OUTDOOR LED DISPLAY



- 5.0 mm Pixel Pitch – Clear and sharp outdoor visuals.
- Wide Viewing Angle – Bright and accurate colors from every side.
- High Performance – 5000-5500 cd/m² brightness & ≥1920-3840 Hz refresh rate.
- Lightweight & Durable – Compact module with Mild Steel cabinet.
- Energy Efficient – Low power consumption for long-term use.



LED Module Technical Parameters

Product: P5.0 Outdoor Full Color LED Display

Item	Parameter
Pixel Pitch (mm)	5.0
Pixel LED	SMD2727
Pixel Density (Dots/m ²)	40,000
Cabinet Size (mm)	960x960
Cabinet Resolution (Px × Px)	192x192
Module Size (mm) (W×H×D)	320 × 160 × 15
Module Resolution (W × H)	64 x 32
Cabinet Weight (Kg)	12
Cabinet Material	Mild Steel
Brightness (CD/m ²)	5000-5500
Refresh Rate (Hz)	≥3840
Color Temperature (K)	3200-9300
Horizontal View Angle (Deg)	160°
Vertical View Angle (Deg)	140°
Screen Power Consumption (W/m ²)	800 (Max) / 260 (Avg)
Drive Mode	1/8 Scan
Input Voltage	AC 100-240V, 50/60Hz
Frame Frequency	50/60Hz
Color (M)	16.7 Million
Working Environment	Outdoor
Working Temperature	-20°C ~ +50°C
Storage Temperature	-30°C ~ +60°C
Life Span	≥100,000 hours



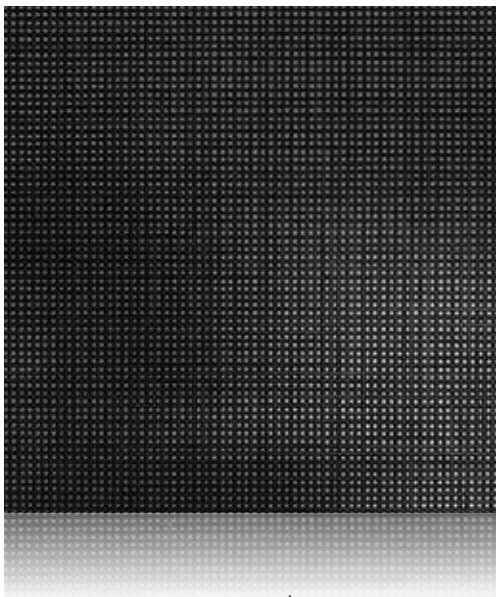
2. Product Features

- High-Resolution Pixel Pitch (5.0 mm): Delivers sharp, clear outdoor visuals suitable for medium to long-distance viewing.
- Wide Viewing Angle: Ensures vivid, consistent colors from all directions, ideal for outdoor public spaces.
- High Brightness Performance: 5000-5500 cd/m² brightness for excellent visibility even under direct sunlight.
- Durable & Weather-Resistant: Mild Steel cabinet provides solid protection against heat, dust, and moisture.
- Lightweight & Modular Design: 320×160 mm modules designed for quick installation, maintenance, and stable outdoor performance.

3. Core Components

- LEDs: High-quality outdoor SMD2121 LEDs ensure strong brightness, long lifespan, and consistent color output.
- Driving IC: ≥1920-3840 Hz high-refresh, high-grayscale IC delivers smooth, flicker-free video playback.
- PCB: Robust multi-layer PCB ensures efficient heat dissipation, uniform current flow, and stable outdoor operation.
- Drive & Control: 1/8 scan constant-current drive enables energy efficiency, high brightness, and excellent uniformity across the display.

Cabinet Image Display



Back



Front



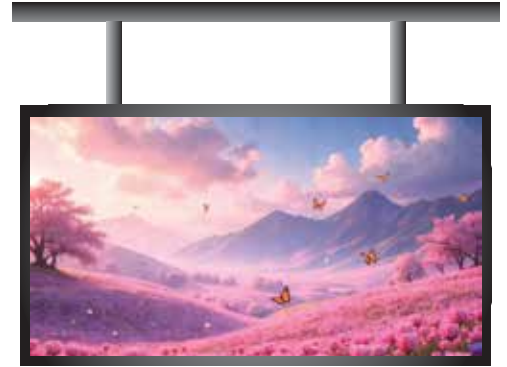
6. Installation

Simple, efficient installation with modular design.

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 room or exhibition halls where aesthetics and space-savi are important.



Wall Style

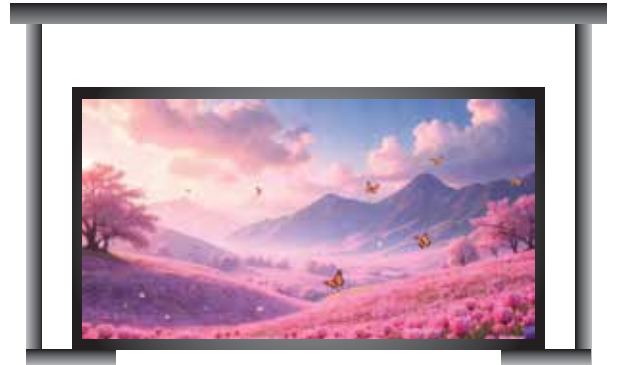
- The LED display is directly mounted on the wall surface.
- Simple, cost-effective installation for meeting room classrooms, advertising boards, or retail stores.





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. Usage & Safety Guidelines

Working Environment

- Designed for outdoor use, suitable for rain, dust, and sunlight exposure (IP-rated protection recommended).
- Avoid extremely corrosive environments (acid/alkali/salt-heavy industrial zones) when possible.
- Keep away from flammable gases and explosive environments.
- 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 place away from corrosive chemicals.
- Avoid heavy impact, bending, or sharp-object contact during transport and installation.

Operation

- Do not reverse power connections; ensure correct polarity and secure wiring.
- For any malfunction under warranty, contact authorized service/technician—do not open the cabinet yourself.
- Handle modules and cabinets carefully during installation to avoid LED and component damage.
- Ensure proper grounding, surge protection, and lightning protection for outdoor installations.
- Avoid frequent power ON/OFF cycles within short intervals (less than 1 minute).
- Avoid long-term shutdown:
 - Power ON at least every 15 days for 4 hours.
 - In humid or coastal regions: power ON weekly for 4 hours.
- Do not display full-white brightness at maximum power for more than 30 minutes—dynamic content is recommended for longer playback.

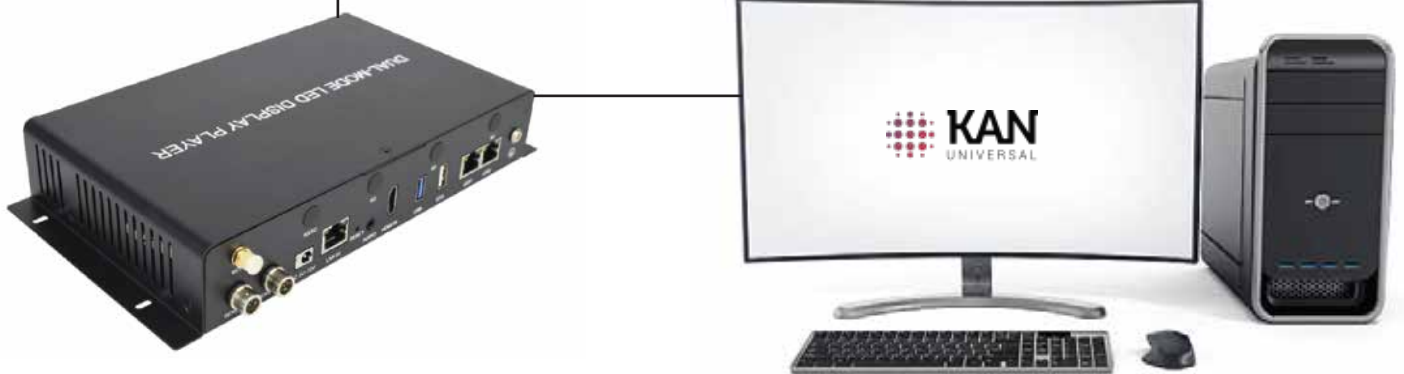
Cleaning

- Clean the LED surface gently using a soft, dry brush or antistatic cloth.
- Do not use water, cleaning liquids, alcohol, or solvents—these can damage LEDs and circuits.
- Ensure power is disconnected before performing any cleaning.



7. Wiring Diagram

LED Display



Computer



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

