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P6.0 | OUTDOOR LED DISPLAY

- 6.0 mm Pixel Pitch – Clear and sharp outdoor visuals.
- Wide Viewing Angle – Bright and accurate colors from every side.
- High Performance – 5500-6000 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.

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LED Module Technical Parameters

Product: P6.0 Outdoor Full Color LED Display

Item	Parameter
Pixel Pitch (mm)	6.0
Pixel LED	SMD2727/3535
Pixel Density (Dots/m²)	27,777
Cabinet Size (mm)	960x960
Cabinet Resolution (Px × Px)	160x160
Module Size (mm) (W×H×D)	192 × 192× 15
Module Resolution (W × H)	32 x 32
Cabinet Weight (Kg)	12
Cabinet Material	Mild Steel
Brightness (CD/m²)	5500-6000
Refresh Rate (Hz)	≥3840
Color Temperature (K)	3200–9300
Horizontal View Angle (Deg)	160°
Vertical View Angle (Deg)	140°
Screen Power Consumption (W/m²)	800 (Max) / 280 (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

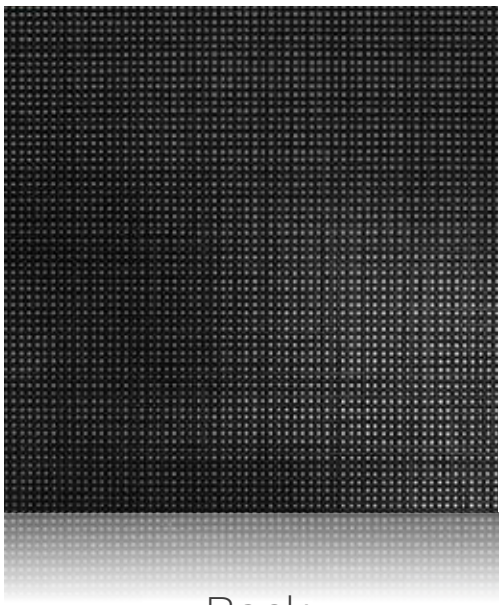
2. Product Features

- High-Resolution Pixel Pitch (6.0 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: 5500-6000 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 SMD2727/3535 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 roor 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 roor classrooms, advertising boards, or retail stores.

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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

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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