P1.53 | INDOOR LED DISPLAY

- **Ultra-Fine Pixel Pitch –** 1.53 mm spacing for sharp, high-resolution visuals.
- **Wide Viewing Angle –** Consistent brightness and color from every direction.
- **High Refresh Rate –** ≥3840 Hz for smooth, flicker-free performance.
- **Compact & Lightweight –** 320 × 160 mm, only 0.29 kg for easy installation.

LED Display Parameters

Product: P1.53 Indoor Full Color LED Display Die-Cast Aluminium

Item	Parameter
Model Number	P1.53
Module Size	320 × 160 mm
Pixel Pitch	1.53 mm
Pixel Density	422,500 dots/m²
Pixel Configuration	1R1G1B
LED Package	SMD1212
Module Resolution	208 (W) × 104 (H)
Best Viewing Distance	2 m – 20 m
Panel Current	4 – 4.5 A
Max Module Power	20 W
Module Thickness	15 mm
Module Weight	0.29 kg
Viewing Angle	H 160 / V 160
Cabinet Size	640 x 480mm
Gray Scale Processing	14 Bit
Brightness (White Balance)	≥ 600-1200 cd/m²
Refresh Rate	≥ 3840 Hz
Ingress Protection (Front/Rear)	IP30 / IP20
Maintenance Type	Front Service
Life Span	≥ 100,000 hours

2. Product Features

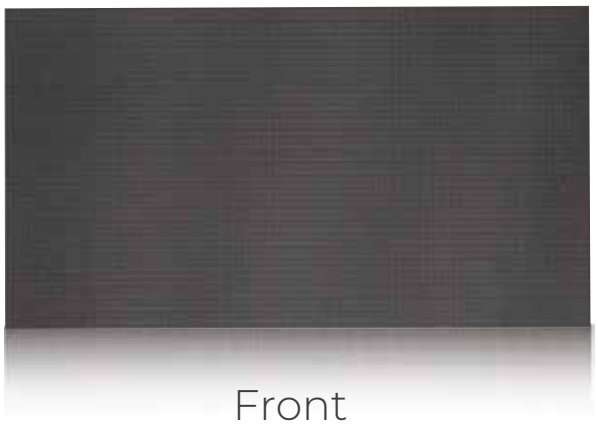
- Ultra-fine pixel pitch (1.53 mm): Delivers ultra-high resolution for stunning indoor high-definition visuals.
- Wide viewing angle: Consistent color and brightness when viewed from any direction.
- 3-in-1 SMD LED: Excellent RGB color mixing, producing vibrant, lifelike images.
- Compact and lightweight design: Saves installation space and reduces load on structures.
- Advanced surface-mount technology (SMT): Ensures uniformity, brightness, and wide viewing angles.

3. Core Components

- LED Lights: Premium SMD1212 matte black LEDs from globally recognized manufacturers ensure long lifespan and superior display quality.
- Driver IC: High refresh-rate, high grayscale constant-current driver ICs from world-class suppliers deliver stable and reliable performance.
- PCB Board: Multi-layer PCB design ensures uniform current distribution, efficient heat dissipation, reduced color shading at low gray levels, and strong EMI resistance.
- Drive & Control: Dedicated 16-bit high grayscale, high refresh constant-current IC with unique shadow elimination circuit to protect LEDs and prevent sudden leakage.

Cabinet Image Display

Back



Front

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.

7. Safety & Usage Guidelines Working Environment

- Indoor use only.
- Avoid high temperature, humidity, acid/alkali/salt environments.
- Keep away from flammable substances, gases, and dust.
- Operating Temperature: -20°C to +50°C (Optimal: -10°C to +40°C).
- Storage Temperature: -30°C to +60°C.

Operation

- Do not reverse-connect power terminals.
- Repairs during warranty must be handled by company technicians or under their guidance.
- Handle carefully during assembly/disassembly; avoid tool impact.
- Ensure proper grounding and protection against lightning and static electricity.
- Do not switch power on/off repeatedly within one minute.
- Do not keep the screen powered off for long periods:
- Use at least once every 15 days for 4 hours.
- In high humidity, use weekly for 4 hours.

Cleaning

Clean module surface with a soft-bristle brush only.
Do not use liquids, as they may damage LEDs.

7. Wiring Diagram

LED Display Controller

Video Splicer

Video Matrix

Switcher

Computer

Surveillance Camera

Wireless Router

Video Camera

Media Player

Mobile Device

Input Source

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