SPECTRUM
www.spectrumdisplay.cn

# 3D Kinetic LED Screen

Digital Display & Advertising Solution

# Series Overview

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- A huge customized LED wall made of hundreds of LED modules controls max.5000 pcs display unit.
- The units to slide forward then back respectively according to the video content.
- The user is able to make infinite creativity design to present an excellent 3D visual effect.

# Specification Parameters

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| Pixel | SP-R1 Indoor Robotic Screen Cabinet | SP-R1 Outdoor Robotic Screen Cabinet |
|---|---|---|
| Model | 160-I | 500-O |
| Pitch | Indoor-P1.98 | Outdoor-P10 |
| LED Module Dimension(WxH)(mm) | 160×160 | 495×245 |
| Gap between Units(mm) | 1(0.5 ~ 1.5) | 5(3.5 ~ 6.5) |
| Motion Unit Dimension(WxH)(mm) | 160×160 (0.0256m²) | 495×495 (0.25m²) |
| Resolution of Unit | 80×80 | 48×48 |
| Cabinet Dimension(Motion Units Qty) | 640×480 (4×3) | 1000×1000 (2×2) |
| Cabinet Thickness（Standby mode）(mm) | 320 | 1400 |
| Max. Forward Stroke(mm) | 200 | 600 |
| Max. Forward Speed(mm/s) | 300 | 800 |
| Min. Forward-back Cycle Time(s) | < 0.7 | < 1.5 |
| Motion Qty per Sqm | 39 | 4 |
| Weight per Sqm(Kg/m²) | 80 | 180 |
| Max. Power Capacity(w/m²) | 900 | 1500 |
| Power Supply Requirement | ≤3KW:220V Single phase<br>≥3KW:380V Three phases/Five wires | 380V Three phases<br>/Five wires |
| Screen Brightness(cd/m²) | ≥700 | ≥7000 |
| Ambient Temperature(℃) | 0 ~ 40℃ | -10 ~ 60℃ |
| IP Rating | IP40 | IP65 |
| Environmental Attentions | No etchant gas, No inflammable gas, No oiled mist and dust | |
| Heat Dissipation | Open self-cooling (with fan cooling) | Semi-closed Self-cooling（with fan cooling） |

# Product Introduction – Indoor P1.98

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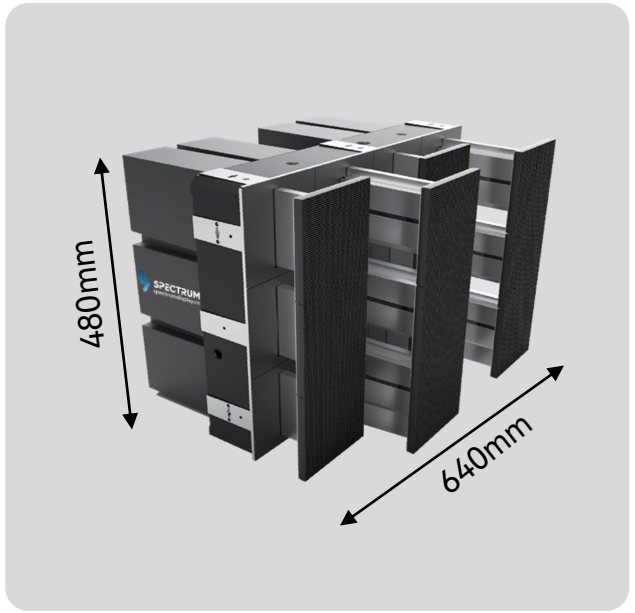
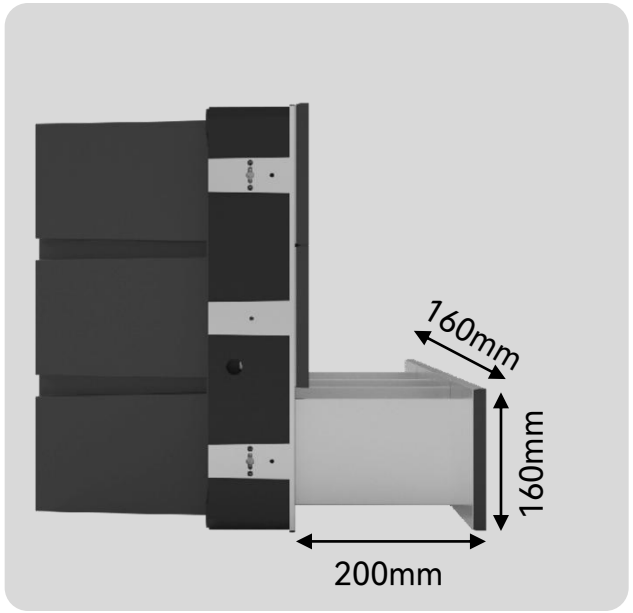
**Motion Unit Size**
160×160mm(0.0256m²)

**Cabinet Size(Motion Units Qty)**
640×480mm(4×3)

**Cabinet Weight**
24kg




Modular Design

Multiple Noise Reduction

Easy Maintenance

Precision Matching Technology

# Product Introduction – Outdoor P10

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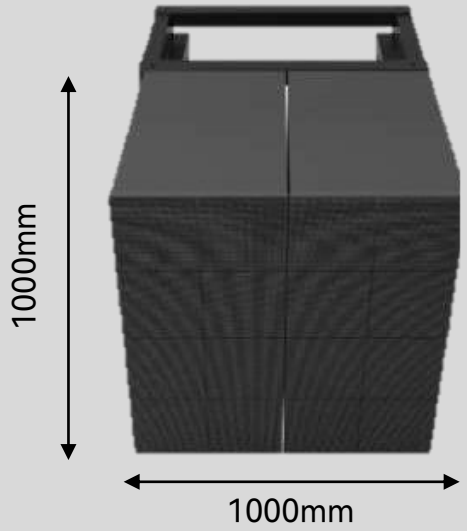
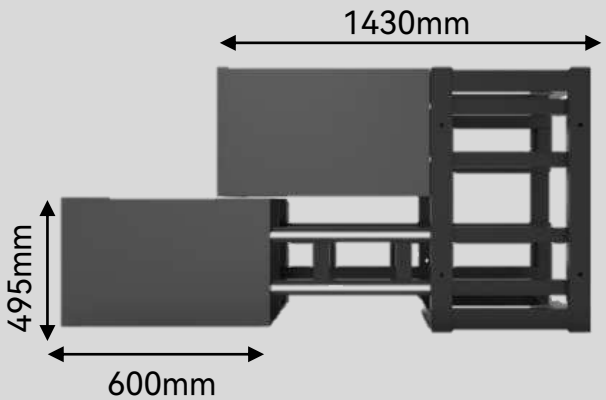
**Motion Unit Size**
495×495mm(0.25m²)

**Cabinet Size(Motion Units Qty)**
1000×1000mm(2×2)

**Weight Per Sqm**
180kg




Modular Design

Multiple Noise Reduction

Easy Maintenance

Precision Matching Technology

# Product Maintenance

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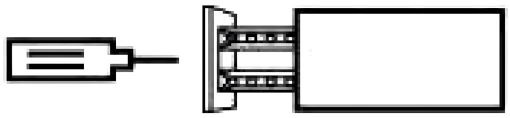
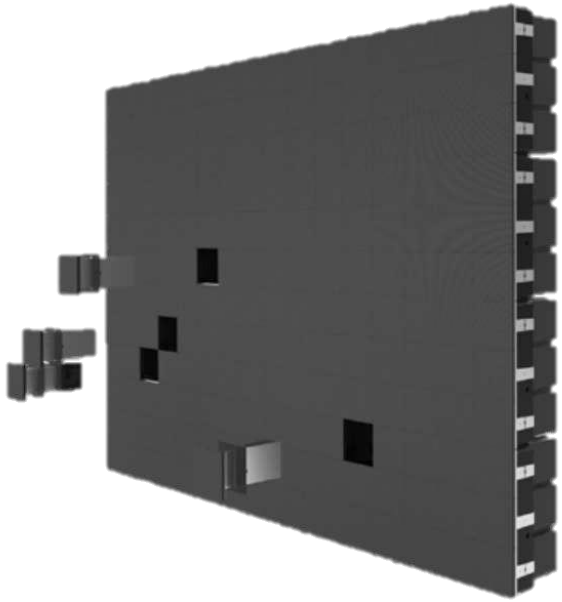


**Convenient Maintenance**

The Indoor adopts the front maintenance which is convenient and quick

The Outdoor adopts internal maintenance, which is safe and completely waterproof



**Indoor**

Front Maintenance

**Outdoor**

Rear Maintenance

# Product Features

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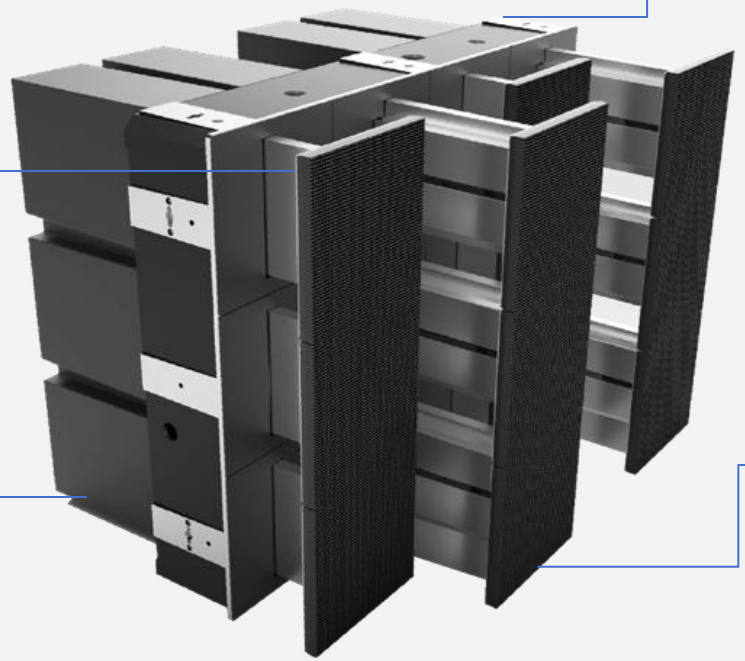
## Die-casting cabinet design

Precision(1mm gap) for good installation flatness

Small module, fits small-area fixed installation and rental



Light weight, a more stable operating environment and long life

Thinner body, only 320mm, Less Space behind for installation

# Product Features

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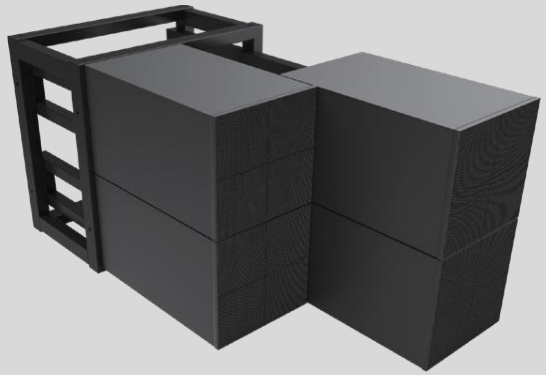

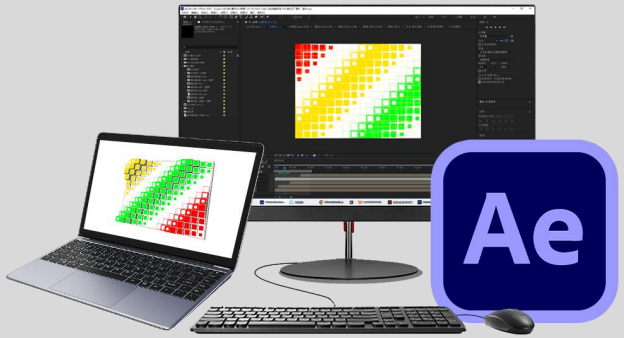

### Interactive Function

Support event-triggered interaction, real-time interaction and other methods to bring real-time fun and participation to the audience

### Independent Development

The digital content editing software especially suitable for the SPECTRUM wave screen simplifies the production process of movies and actions

### Precision Machining Technology

Industrial-grade linear guide rails are used to ensure that the module gap is only 1.5mm

# Product Features

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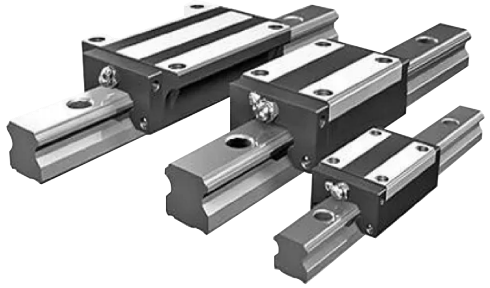
**Precision machining**

More than 90% are precision processed

**Stable power supply**

Well-known branded switching power supply with PFC function



**High precision linear guide**

Industrial linear guide ensure accurate Operation

**High-quality motor**

Use high-quality stepping motors to ensure control accuracy

# Product Features

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Multiple noise reduction design

Keep the indoor environment low-noise during operation

| | |
|---|---|
| Library | 45dB(A) |
| **Sleeping** | **55dB(A)** |
| Conversation | 60dB(A) |

# Application Scenarios

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Shopping Mall

Metro Station

Railway Station

Cinema

Building

Science Museum

# Project Cases

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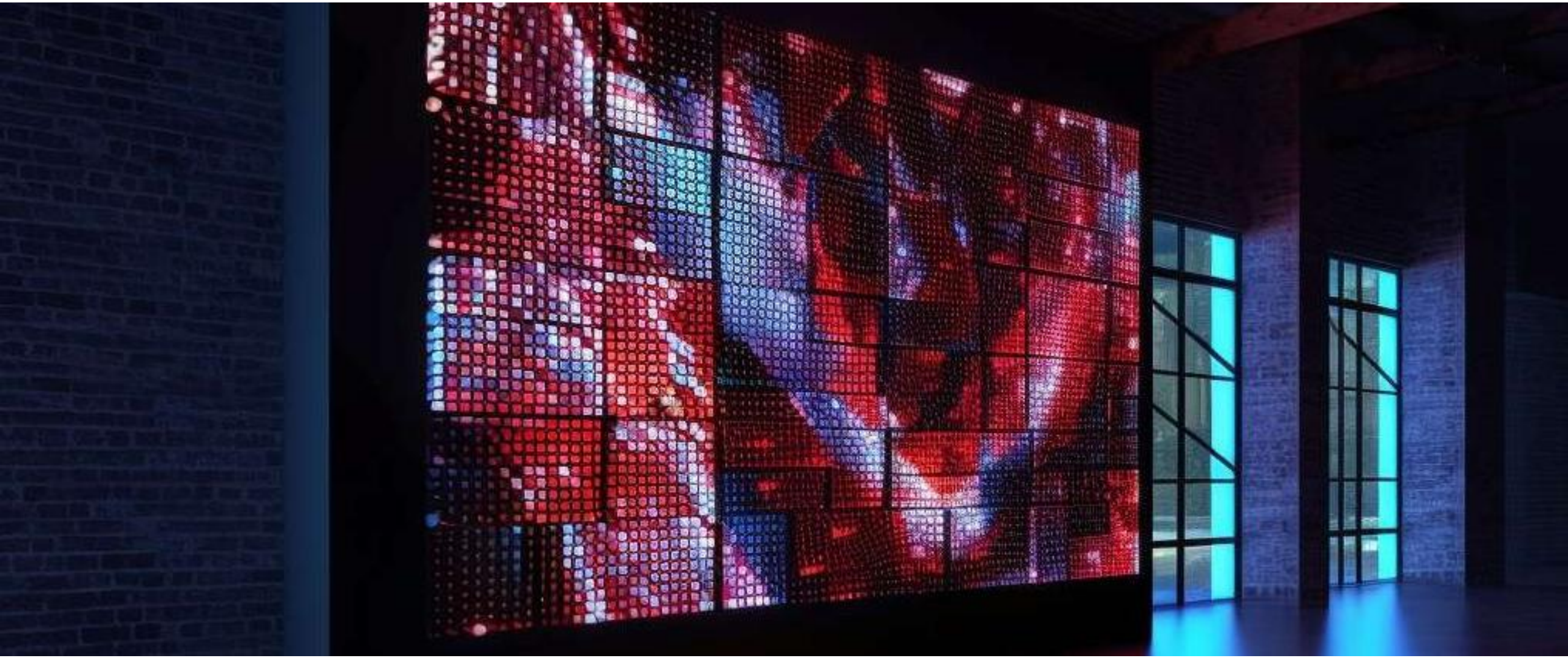

**Indoor**
Shanghai, China

# Project Cases

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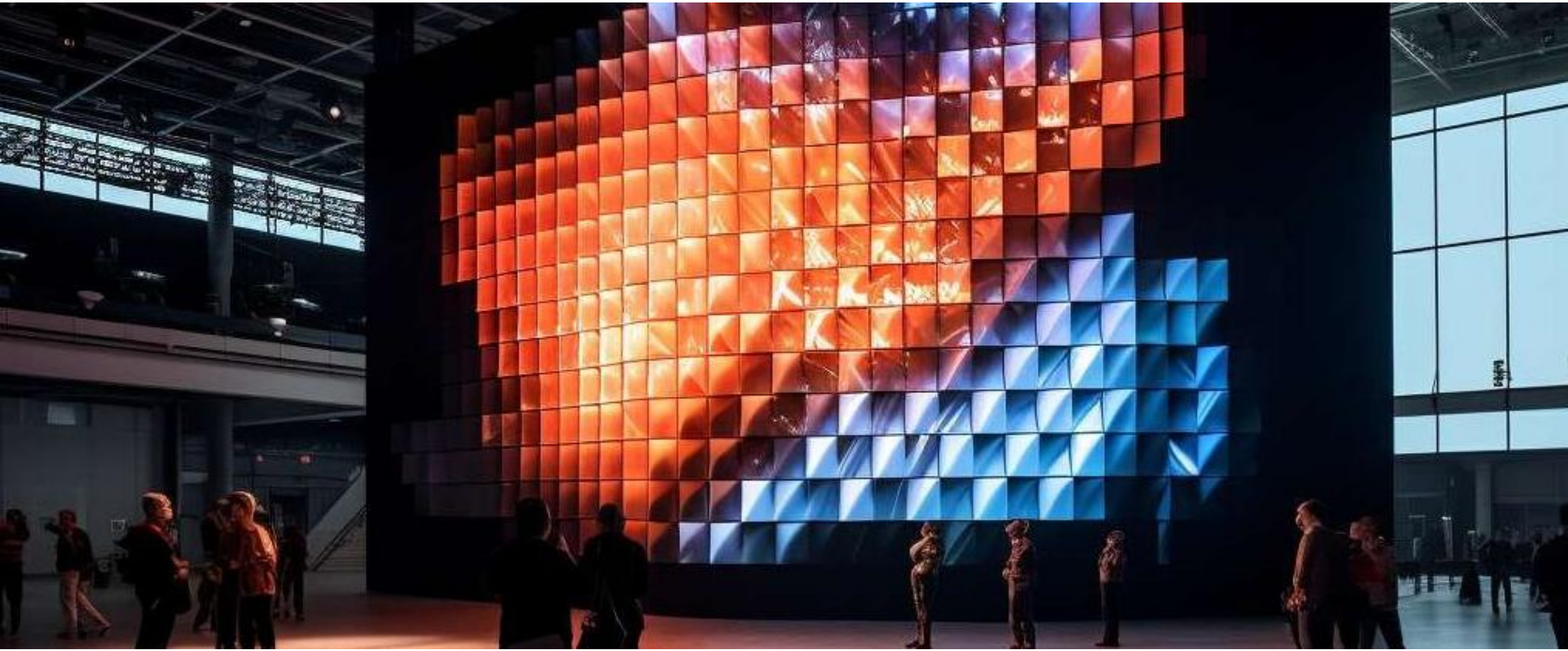

**Indoor**
Chongqing, China

# Project Cases

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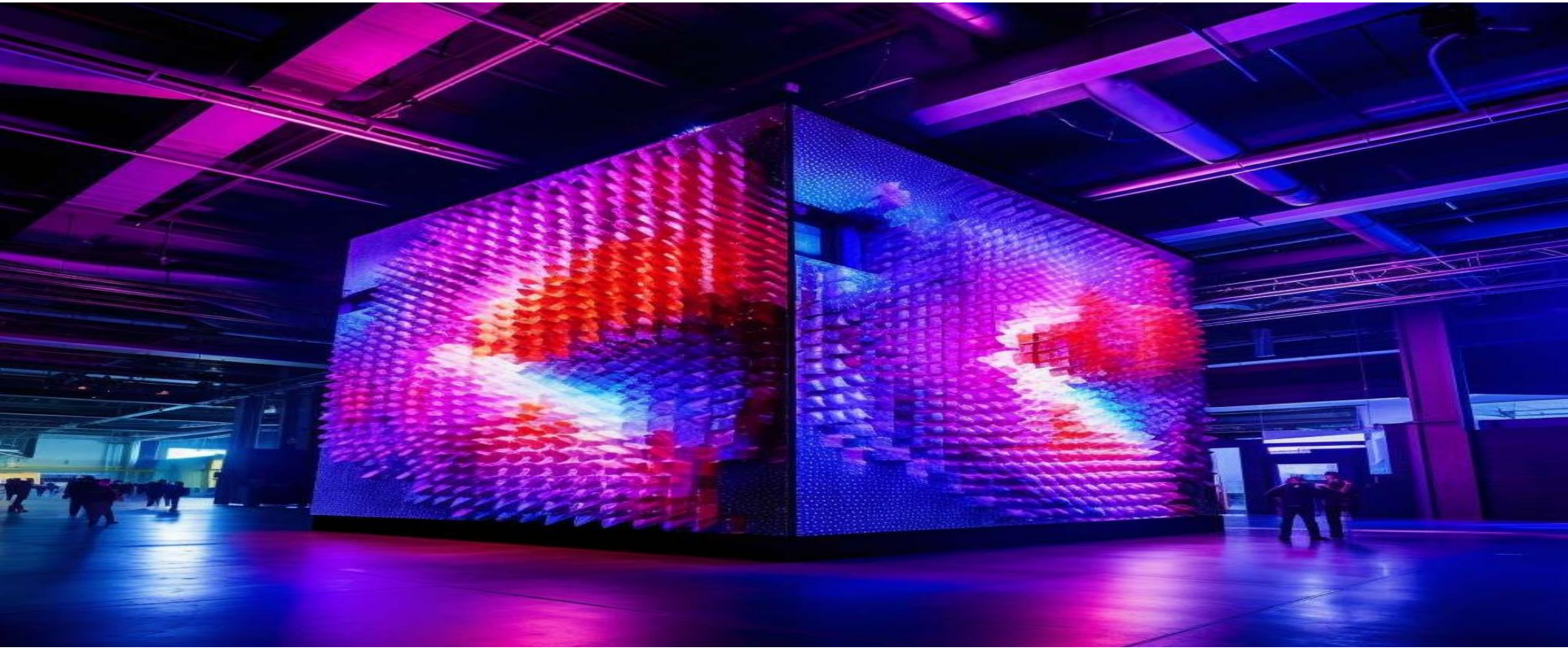

**Indoor**
Hangzhou, China

# Project Cases

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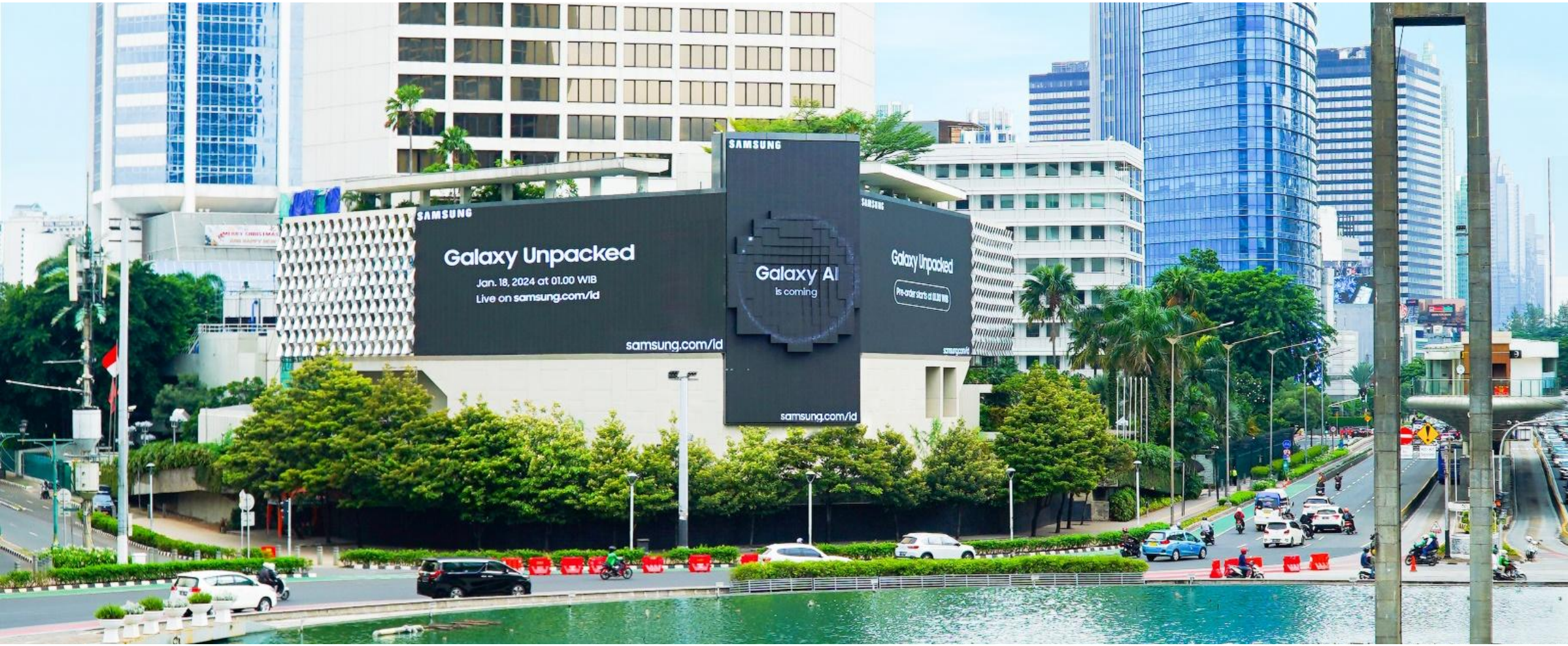


**Outdoor**

Jakarta, Indonesia

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**Outdoor**
Seoul, South Korea

# Partners

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SIEMENS

NStech 南士科技

欢螺实业

Continental 德国马牌

中大元通线缆 ZHONGDA YUANTONG CABLE

三菱电机 MITSUBISHI ELECTRIC

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