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3D Kinetic LED Screen

Digital Display & Advertising Solution

Series Overview

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3D EXPERIENCE

- A huge customized LED wall made of hundreds of LED modules controls Max.65536 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 Kinetic Screen Cabinet
Model	250-I
Pitch	Indoor-P1.945
LED Module Dimension(WxH)(mm)	248.5x248.5
Gap between Units(mm)	1.5(1.0~2.0)
Motion Unit Dimension(WxH)(mm)	248.5x248.5 (0.0618m²)
Resolution of Unit	128x128
Cabinet Dimension(Motion Units Qty)	500×500 (2x2)
Cabinet Thickness（Standby mode）(mm)	320
Max. Forward Stroke(mm)	200
Max. Forward Speed(mm/s)	500
Min. Forward-back Cycle Time(s)	0.5
Motion Qty per Sqm	16
Weight per Sqm(kg/m²)	52
Max. Power Capacity(w/m²)	720
Power Supply Requirement	≤3KW:220V Single phase ≥3KW:380V Three phases/Five wires
Screen Brightness(cd/m²)	≥600
Ambient Temperature(℃)	0～40℃
Environmental Attentions	Indoor, No etchant gas, No inflammable gas, No oiled mist and dust
Heat Dissipation	Open self-cooling (with fan cooling)

Remark: There are multiple options for pixel pitch: P1.5625, P1.945, P2.604, and P3.91. P1.945 has been developed, other pixel pitch options are still under development.

Specification Parameters

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Pixel	SP-CR Indoor Mechanical Screen - Rental Series			
Pixel Pitch	P1.5625	P1.945	P2.604	P3.91
LED Module Size (mm)	248.5x248.5			
Module Spacing (mm)	1.5(1.0~2.0)			
Moving Unit Size (mm)	248.5x248.5 (0.0618m²)			
Unit Resolution	160X160	128X128	96X96	64x64
Box Size (Number of Moving Units)	500x500 (2x2)			
Box Thickness (Idle Mode) (mm)	320			
Maximum Extension Stroke (mm)	200			
Maximum Extension Speed (mm/s)	500			
Minimum Cycle Time for Extension/Retraction (s)	0.5			
Number of Moving Units per Square Meter	16			
Weight per Square Meter (kg/m²)	52			
Maximum Power Capacity (W/m²)	720			
Power Requirements	≤3KW-220V Single Phase; ≥3KW-380V Three Phase/Five Wire			
Screen Brightness (cd/m²)	≥600			
Ambient Temperature (°C)	0 ~ 40°C			
Environmental Requirements	Indoor use, no corrosive gases, no flammable gases, no oil mist and dust			
Cooling Method	Open self-cooling (including fan cooling)			

Product Introduction

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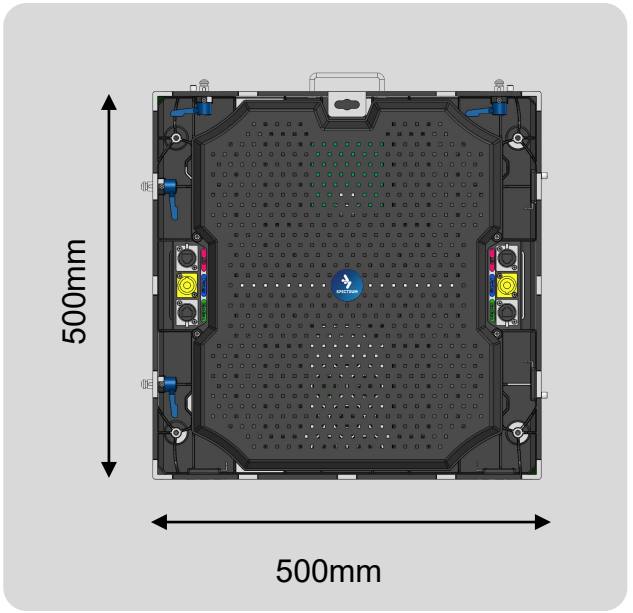
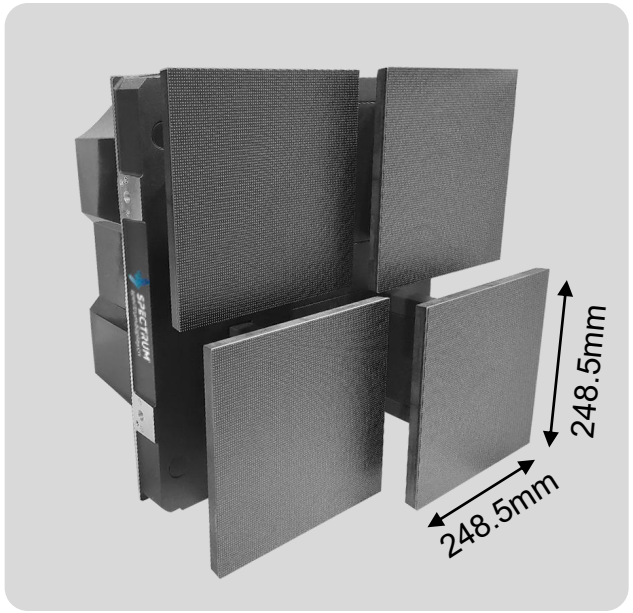
Motion Unit Size
248.5x248.5 (0.0618m²)

Cabinet Size(Motion Units Qty)
500×500mm(2×2)

Weight Each Cabinet
13kg





Easy Installation

Independent Software

Easy Maintenance

High-precision control

Product Features

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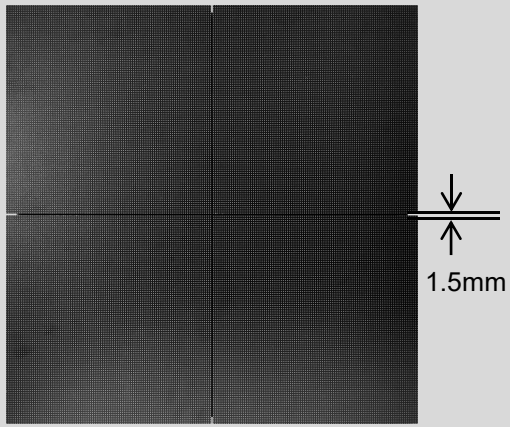
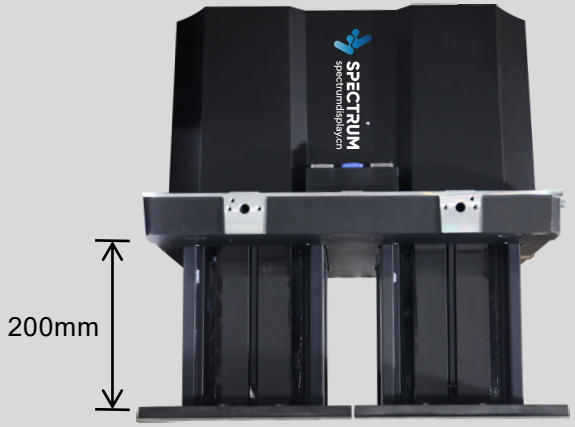


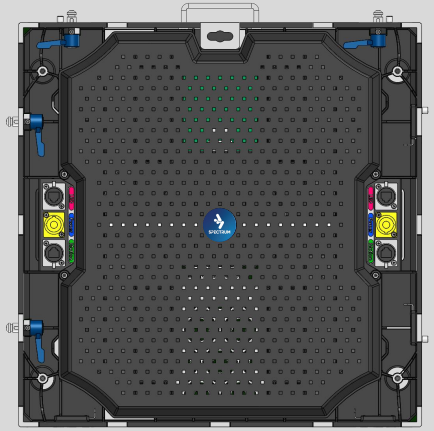
Ultra-thin gap

- Gap between Units of Indoor 250-I is ≤1.5mm.
- The precise sliding structure and the extremely fine gap between the screens present more complete and clear content.



Forward Stroke

- The forward stroke can reach 200mm.
- More realistic 3D visual effect.



Precision Machining Technology

- More than 90% of mechanical parts are precision processed.
- Industrial linear guides ensure accurate operation.

Product Features

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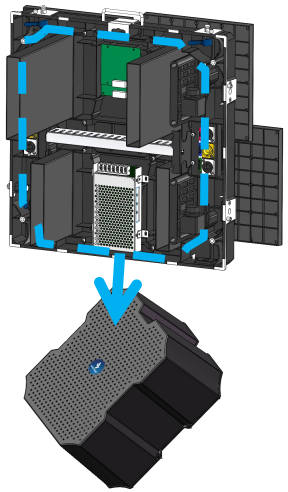
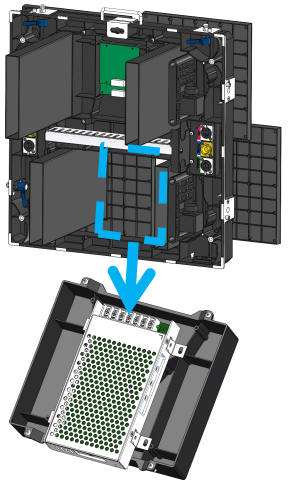
Indoor Rear Maintenance

Maintenance Steps



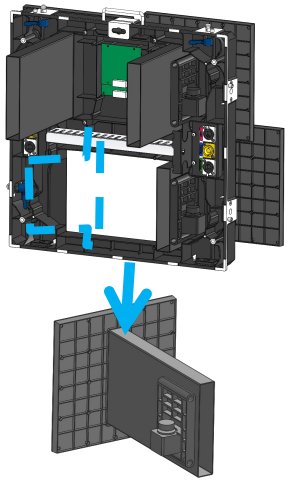
A

Open the back cover to repair the entire circuit, receiving card, and power supply.



B

Removed the power supply mounting plate, revealing a large hole.



C

The entire motion unit can be removed, and then the motion mechanism and modules can be repaired.

Product Features

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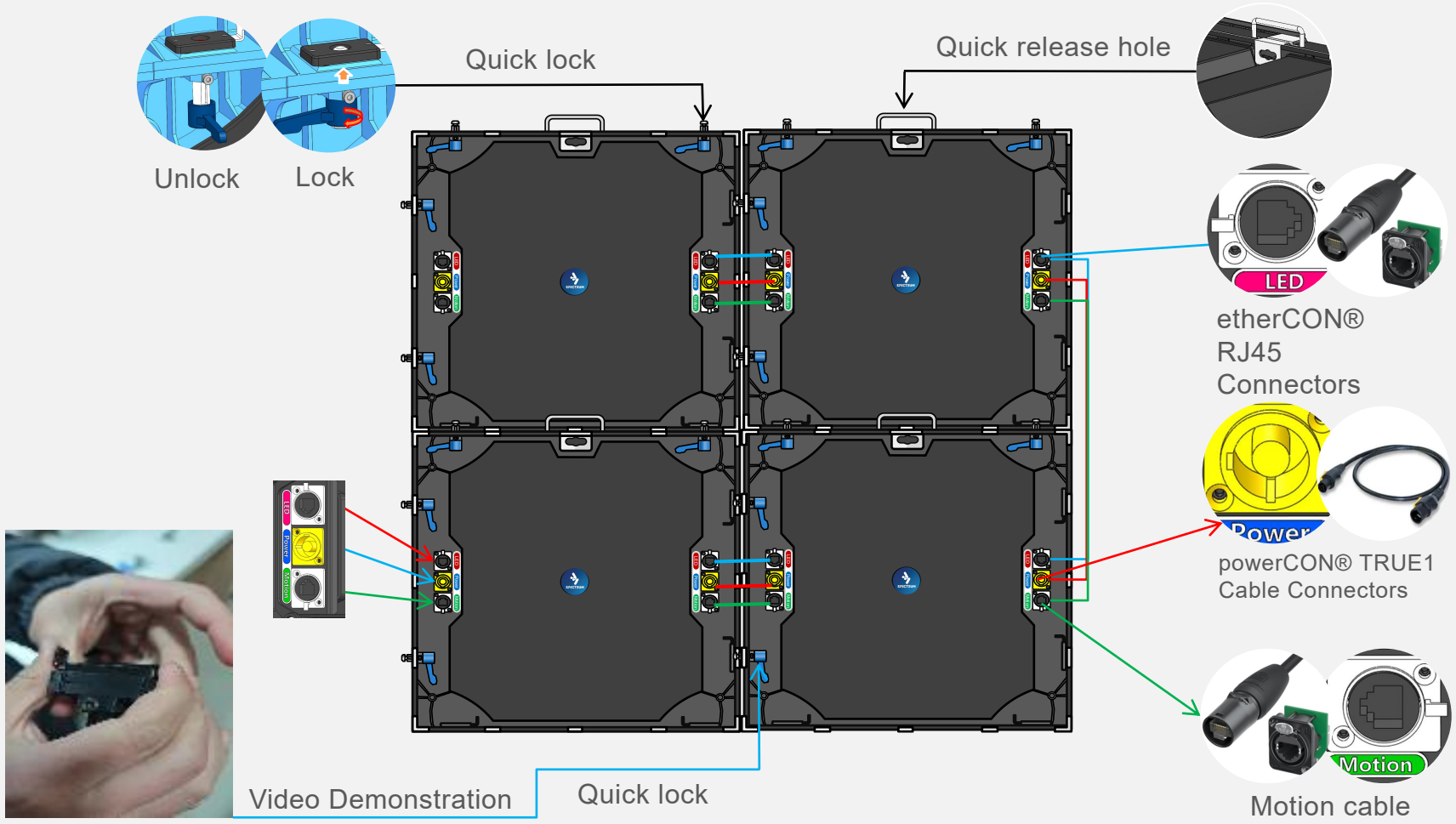

Structure Introduction

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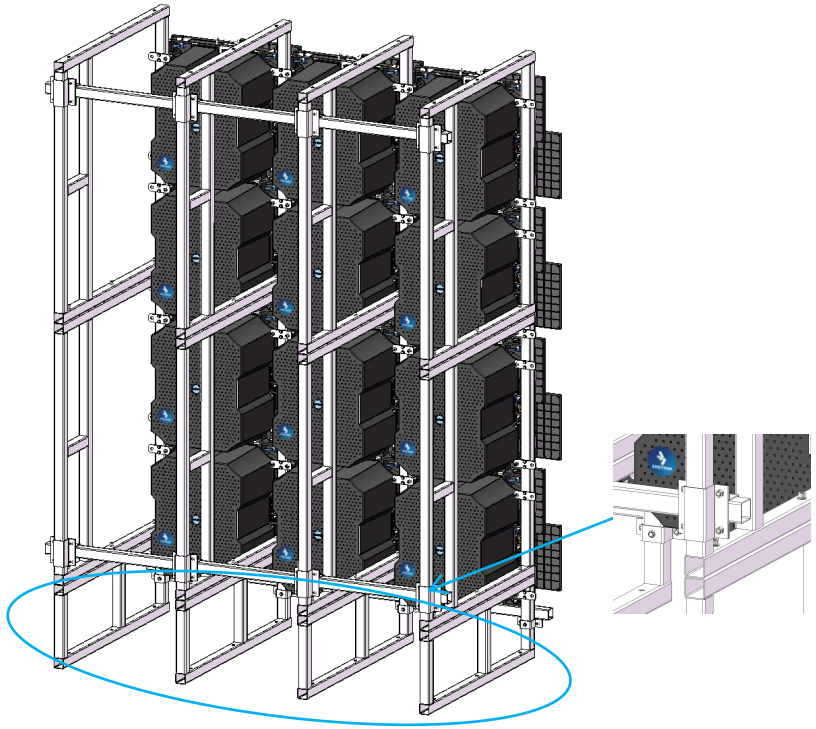
Fixed To Ceiling Structure

Stacking Structure



Put heavy weights in the bottom position to keep the structure steady

Software Assistance

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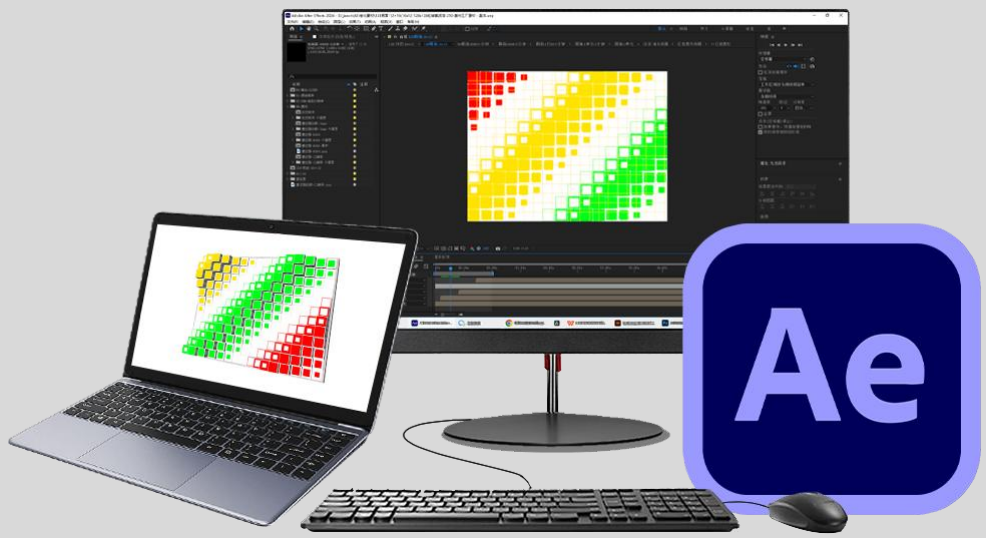

- Specifically designed digital content editing software for the screen.
- Simplifies the production process of movies and actions.
- Easily creates a 3D game like creative output.

Quick Output

Easy Operation

3D Preview

Connection Diagram

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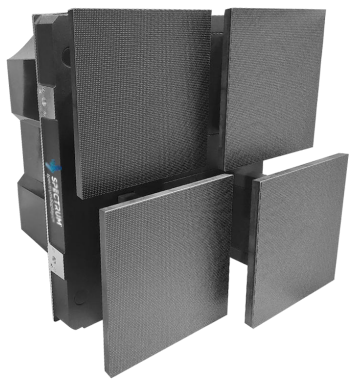
LED Display Motion Control



Kinetic Screen

RJ45

CAN Box

USB

Net cable

Sending Box

USB; HDMI

Control PC

The display screen connection is consistent with the LED display connection, while the motion module connection is an additional connection.

Product Features

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Multiple noise reduction design

Low-noise indoor Max. Noise Value: 55dB(A)

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

Application Scenarios

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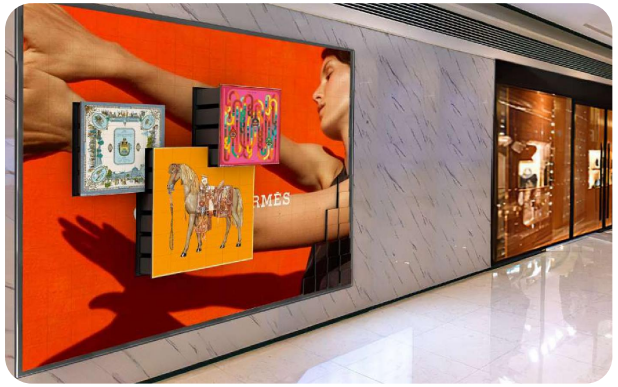
Shopping Mall

Metro Station

Railway Station

Cinema

Building



Science Museum

Project Case

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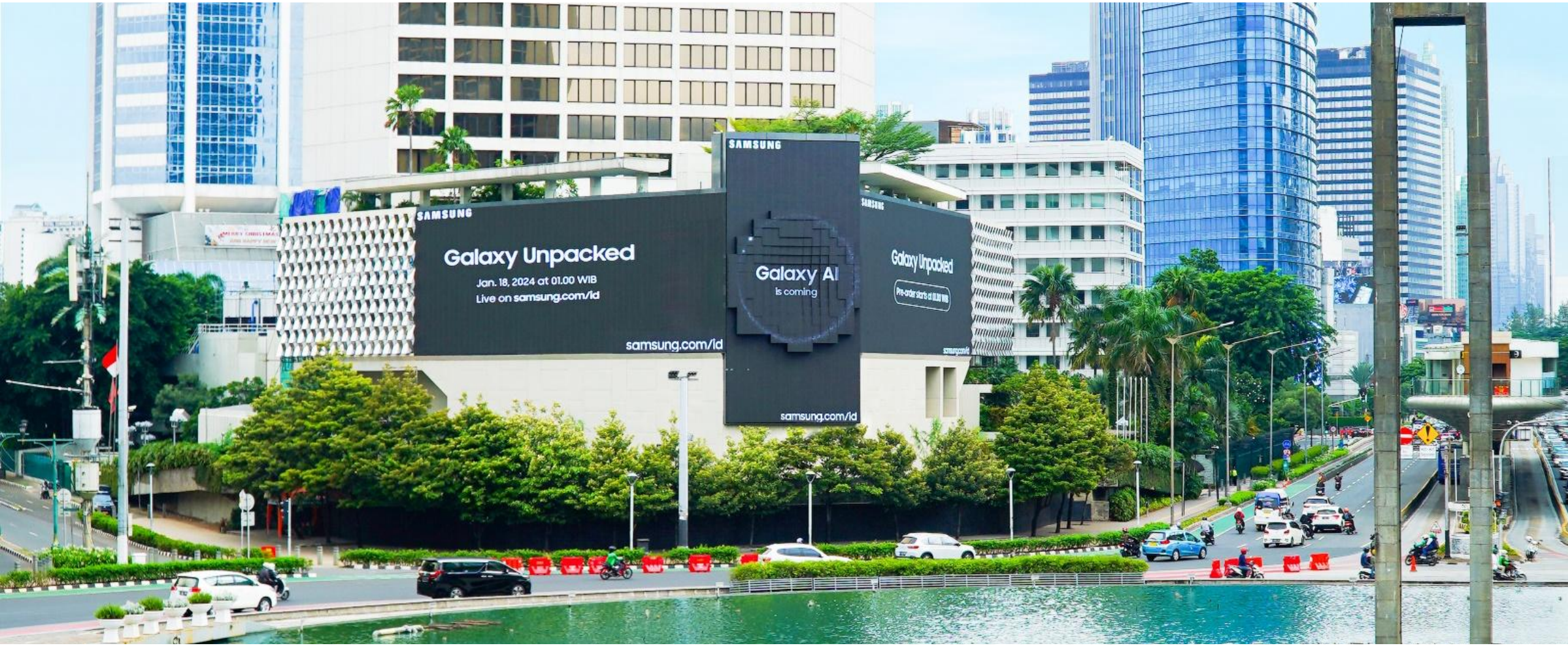

Outdoor · Jarkata Indonesia

Interactive Dooh: The First And Largest Outdoor LED Interactive Screen Around the World

Project Case

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Indoor

Saudi Arabia

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Cairo, Egypt

Project Case

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Indoor

Macao SAR, China

Project Case

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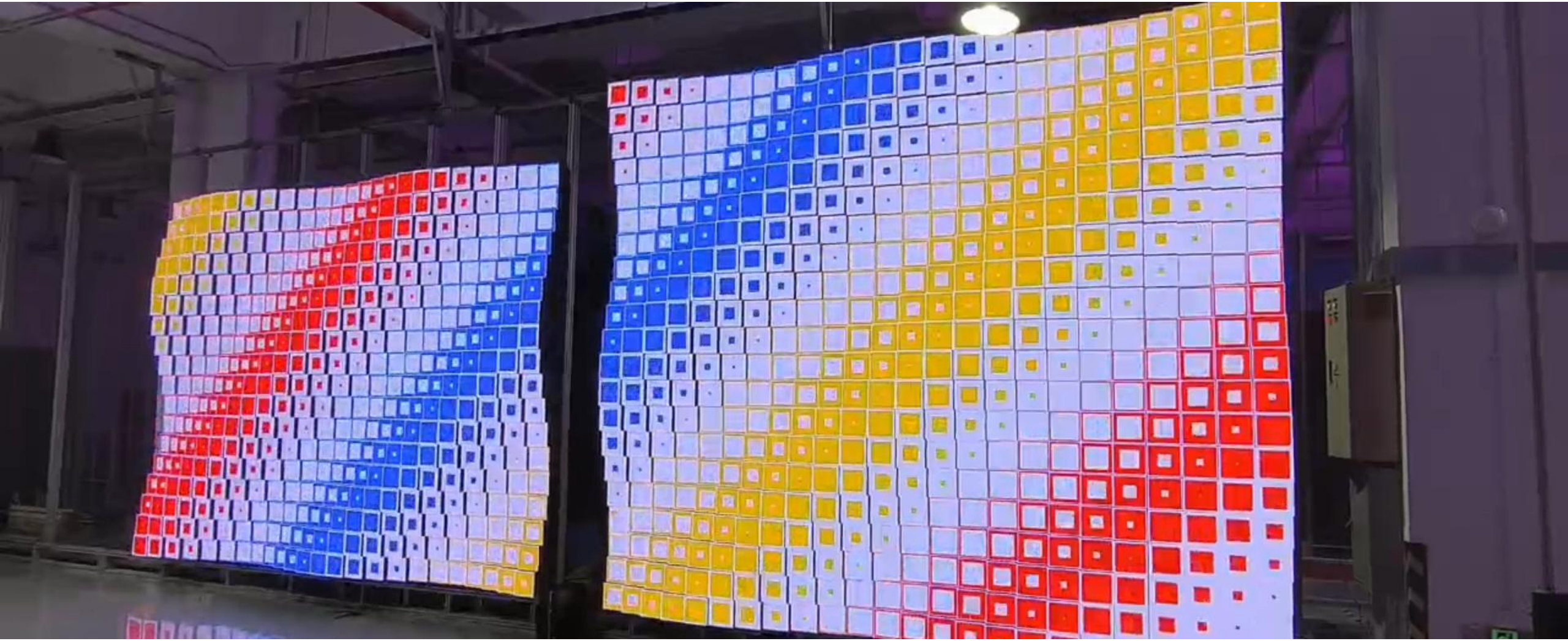

Indoor

Mumbai, India

Project Case

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Indoor
Beijing, China

Project Case

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Indoor

Riyadh, Saudi Arabia

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