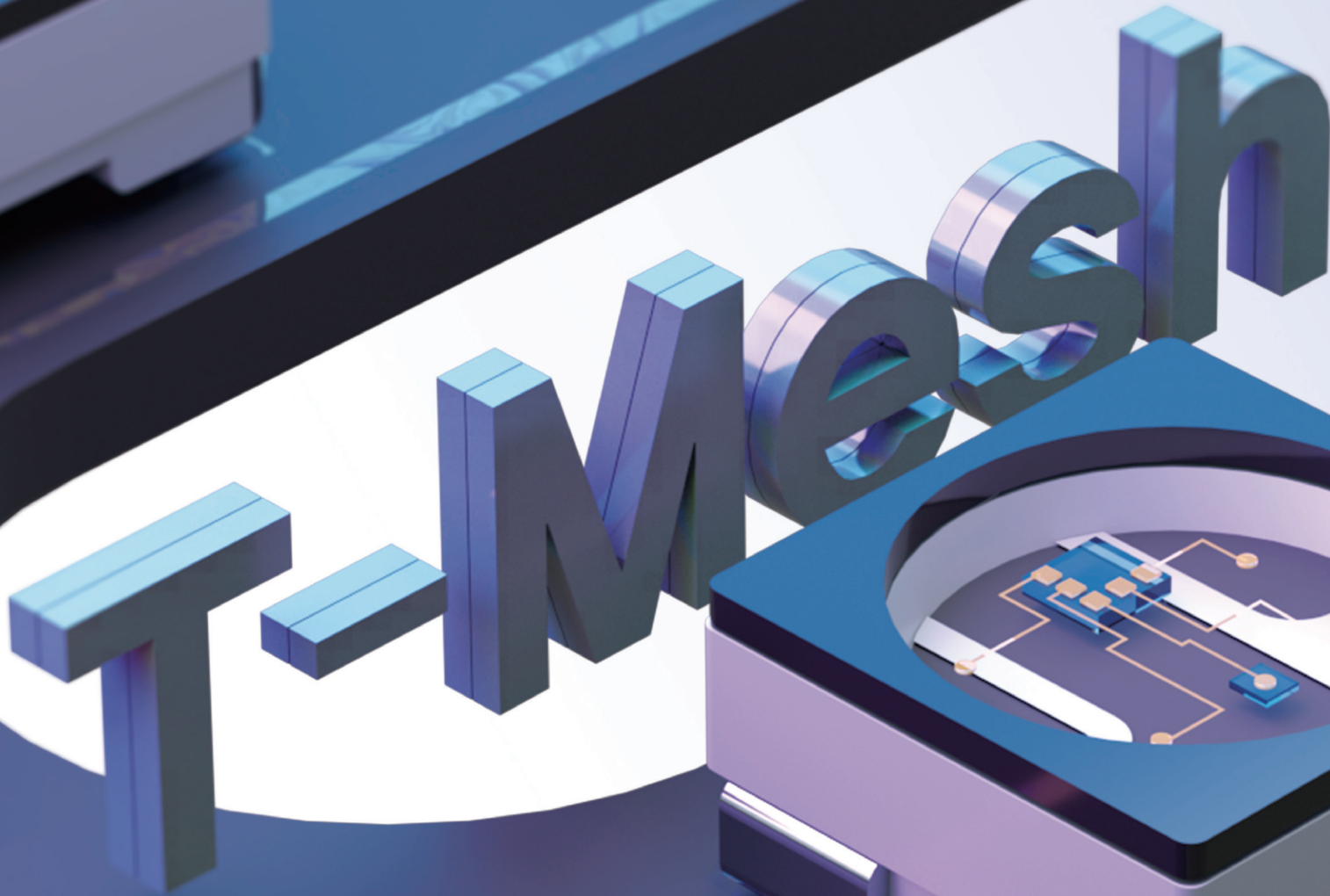


Advanced Circuit Technology
Unprecedented Spatial Innovation
A New Dimension of Transparent Display



 **EV첨단소재**

26, Seongseo-ro 35-gil, Dalseo-gu, Daegu, 42719, Republic of Korea
TEL. 053-602-4225 / FAX. 053-602-4333
Website <https://www.actvision.co.kr>

COMPANY PROFILE

Brand Introduction

ACTVISION is the transparent LED display brand of EV Advanced Materials. It is a transparent digital signage product based on circuit design and process technology from our core business, Flexible Printed Circuit Boards (FPCB). We provide the best quality, optimal price, and unprecedented spatial innovation.

ACTVISION



**Excellent
Procurement
Product Certified**



KOSDAQ Listed



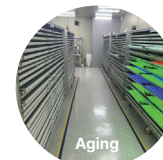
**Mass Production
Supplier to
LG Electronics**

EV.A.M Overview

Location	26, Seongseo-ro 35-gil (Wolam-dong), Dalseo-gu, Daegu, Republic of Korea
Business Area	Flexible Printed Circuit Boards (FPCB), Display Manufacturing
Capital	KRW 29.7 Billion
Workforce	KOR 114 employees, VINA 421 employees
Annual Revenue	KRW 81.0 Billion ('24)

Core Manufacturing Processes

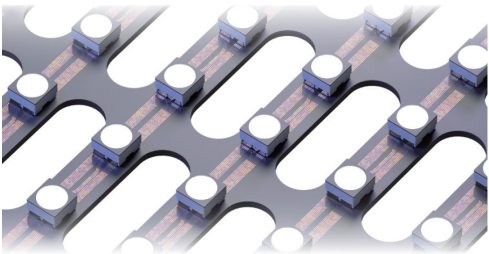
We have established a mass production system through the in-house integration of full-process equipment—a unique capability in Korea.





T-Mesh

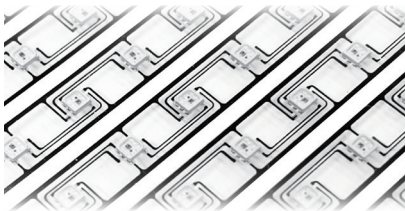
Transparent LED Mesh



Transparency	40%~70%
Brightness	6,000 nit
Color Reproducibility	65,536 colors per RGB (48-bit)
Protection Rating	LDM IP66 / PDU IP20
Power Consumption	600W / 6000 nit
Bezel	Bezel-less
Installation	Glass Attachment
Weight (/m ²)	6kg
Manufacturing	In-house Production

Transparent Film

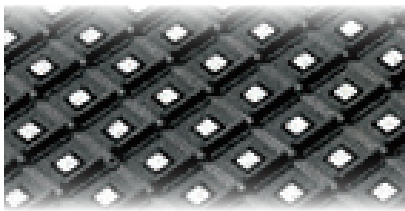
OCR Film



Transparency	50%~70%
Brightness	2000 nit
Color Reproducibility	65,536 colors per RGB
Protection Rating	LDM IP66 / PDU IP20
Power Consumption	400W / 4000 nit
Bezel	Bezel Present
Installation	Glass Attachment
Weight (/m ²)	6kg
Manufacturing	In-house Production

Black Screen

Electronic signage



Transparency	0%
Brightness	6,000 nit
Color Reproducibility	256 colors per RGB
Protection Rating	IP55
Power Consumption	600W / 6000 nit
Bezel	Bezel Present
Installation	Steel Structure Construction
Weight (/m ²)	30kg
Manufacturing	Imported from China

ISE 2026

LG Electronics Exhibition Showcase, M6

An LED tower (4.2m x 5.6m) combined with T-Mesh was installed to present Korean traditional beauty through modern video imagery.

The T-Mesh featured a 6.25mm pitch, composed of a 33m fixed section and a 15m movable section suspended in mid-air. Its lightweight and flexible structure realizes vivid imagery without obstructing the view.



Differentiating Technology

ACTVISION's key technology delivers equivalent or superior performance compared to mainstream outdoor LED displays including high brightness, bezel-less design, and efficient system operation—while functioning as a transparent display.

01

48-bit Color Reproduction

Delivers RGB 48-bit color expression, achieving approx. 16.77 million times richer color rendering than standard 24-bit LED displays.

Delicate shadow gradation the core of HDR delivers decisive differences in picture quality.



02

Through-Hole Mesh Structure

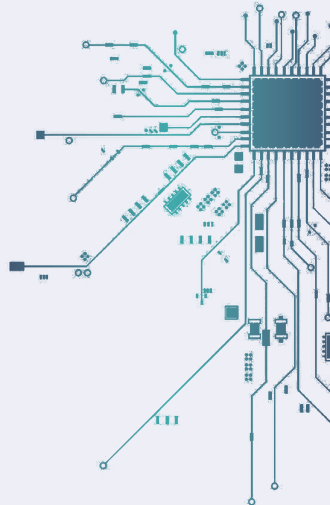
Long-hole design applied to maximize light transparency. Circuit wiring minimized using IC LEDs directly integrated on the substrate.



03

High-Brightness Circuit Design

Optimized pattern thickness for VCC and GND wiring. Maximized RGB Chip luminous efficiency and expanded lead frame aperture ratio. Outstanding energy efficiency (<600W at 6,000 nits) ensuring daytime visibility comparable to standard outdoor billboards.



04

Bezel-less Module Structure

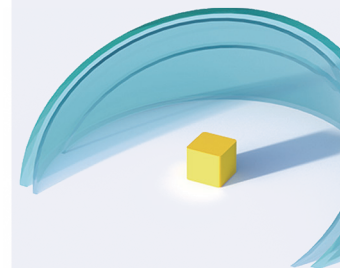
Power and data connectors are positioned at the back of the product. Maintains consistent pixel pitch spacing between LED modules. Direct attachment to front glass enables large-scale Media Facade implementations.



05

Expanded Display Versatility

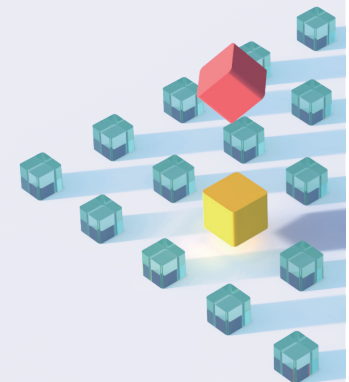
Flexible substrate allows curved, theater-style configurations. Diagonal cutting options grant design freedom. Ultra-lightweight structure enables ceiling-suspended displays.



06

LTD Technology Line to Dot

Resolves the chronic "line failure" issue typical of traditional LED billboards. Enables replacement of only the individual failing LED pixel (Dot) instead of entire lines. Minimizes operational failures and maximizes maintenance efficiency to ensure **uninterrupted media wall operation.**

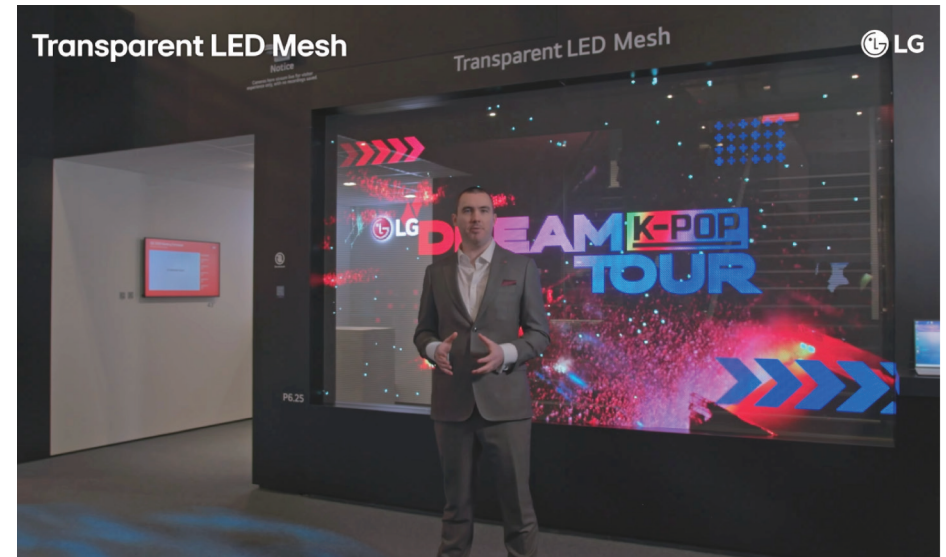


ISE 2025 _ LG Electronics Exhibition, M6

ISE (Integrated Systems Europe) is the world's largest audiovisual and systems integration exhibition.

Through a technology partnership with LG Electronics, ACTVISION demonstrated its proven technical capabilities and showcased its unique transparent LED technology to the global market at the ISE trade show.

We possess innovative reference solutions that meet industry standards and set the benchmark for future displays.

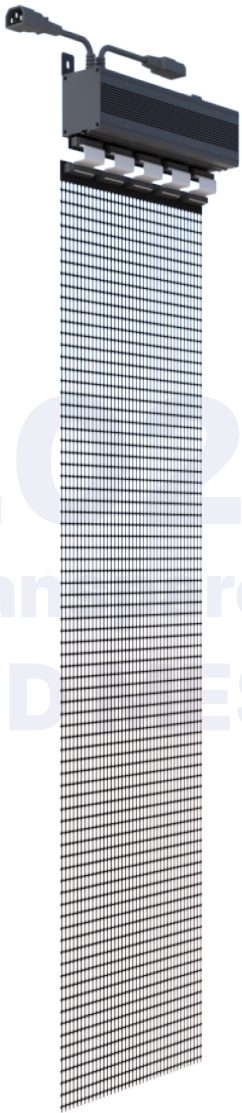


LINE UP 피치별 라인업				
Model	M4	M6	M8	M10
Display Dimension(mm)(w*h*t)	250*1000*3	250*1000*3	250*1000*3	250*1000*3
Pixel Pitch(mm)	3.91mm	6.25mm	7.81mm	10mm
Pixel Density(dot/ea)	16,384	6,400	4,096	2,500
LED Size	1010	2020	2020	2020
Transparency Rate	40%	50%	60%	70%
Resolution(dot)(w*h)	64*256	40*160	32*128	25*100
Brightness(Typical,nit)	6,000	6,000	6,000	6,000
Weight(/m2)	6 kg	6 kg	6 kg	6 kg
Scanning Mode	Static Driving	Static Driving	Static Driving	Static Driving
LED Lifespan	Over 100,000Hr	Over 100,000Hr	Over 100,000Hr	Over 100,000Hr
Pixel configuration	16bit	16bit	16bit	16bit
Power Consumption (w/m2,Typical)	600	600	600	600
Control System	Novastar	Novastar	Novastar	Novastar
Input Voltage	100 ~ 240	100 ~ 240	100 ~ 240	100 ~ 240
Working voltage for Module	DC 4.5V	DC 4.5V	DC 4.5V	DC 4.5V
Working Temperature	-20~50°C	-20~50°C	-20~50°C	-20~50°C
Working Humidity	20~70%	20~75%	20~75%	20~75%
Storage Temperature	-20~60°C	-20~60°C	-20~60°C	-20~60°C
Storage Humidity	10~85%	10~85%	10~85%	10~85%
Install direction	Forward/Backward	Forward/Backward	Forward/Backward	Forward/Backward
Protection Degree	LDM(IP66), PDU(IP20)	LDM(IP66), PDU(IP20)	LDM(IP66), PDU(IP20)	LDM(IP66), PDU(IP20)
Packing Way	Tray and Pearl Cotton	Tray and Pearl Cotton	Tray and Pearl Cotton	Tray and Pearl Cotton

Composition

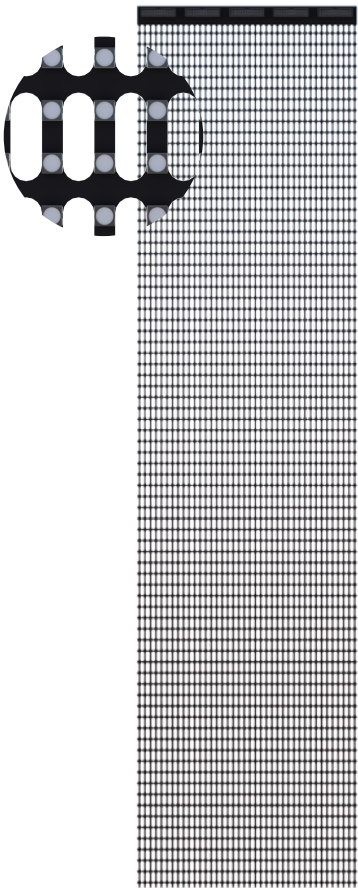
Composition

2026
Transparent
LED MESH

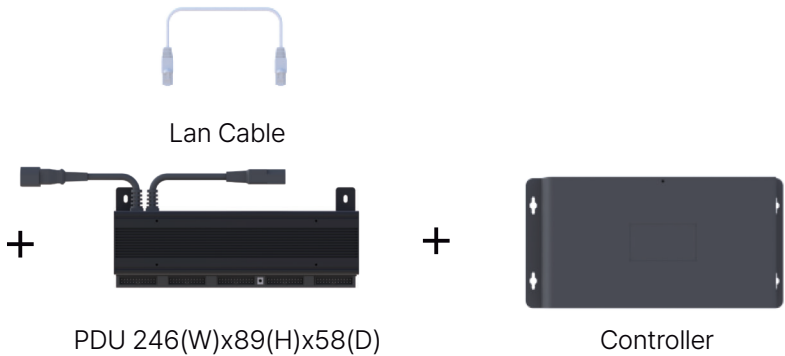


UNIT

=



LED Mesh
250(W)x1000(H)



Data Cable

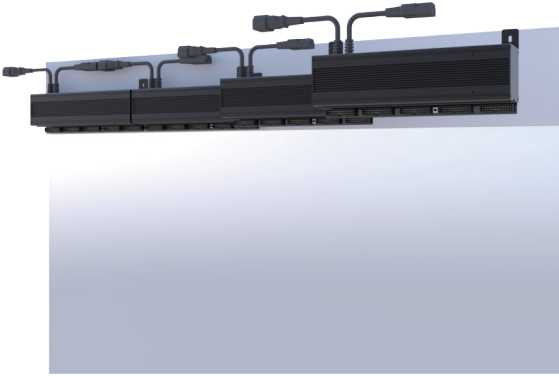


Optional: Laptop for operating video playback
*Operating software is provided.

Installation Method

This guide explains how to install the transparent mesh.

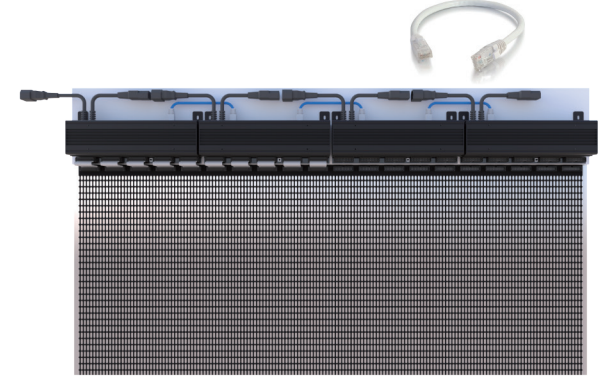
Step 1. Sequentially mount the PDUs onto the wall structure.



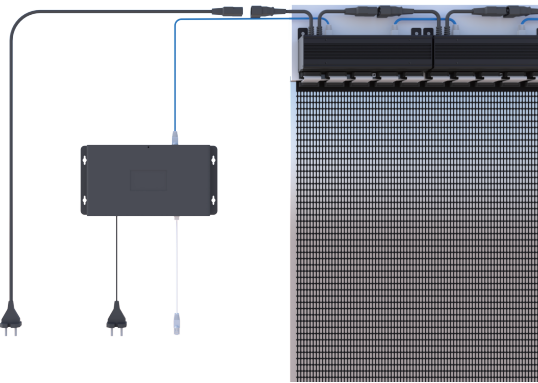
Step 2. Clean the glass surface, peel off the release paper from the back of the LED Mesh, align, and adhere it onto the glass.



Step 3. Connect the PDU and LED Mesh using the Data Cable, then daisy-chain PDUs together using LAN Cables



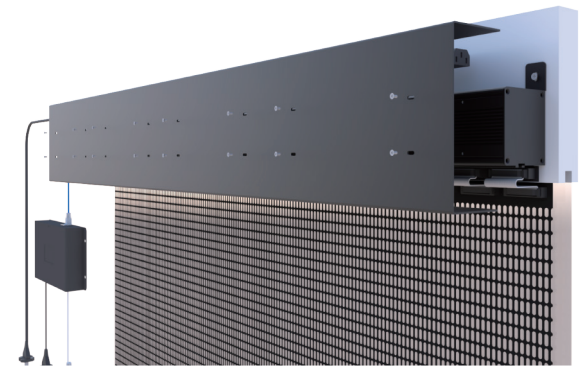
Step 4. Connect the AC Power Cable from the main power source to the PDU, and connect the Controller to the PDU using a LAN Cable.



Step 5. Output video signals from the controller to test and inspect video playback.



Step 6. Close and secure the protective cover.



LED Mesh 2026 _ Yongin Bojeong Mir Human Center

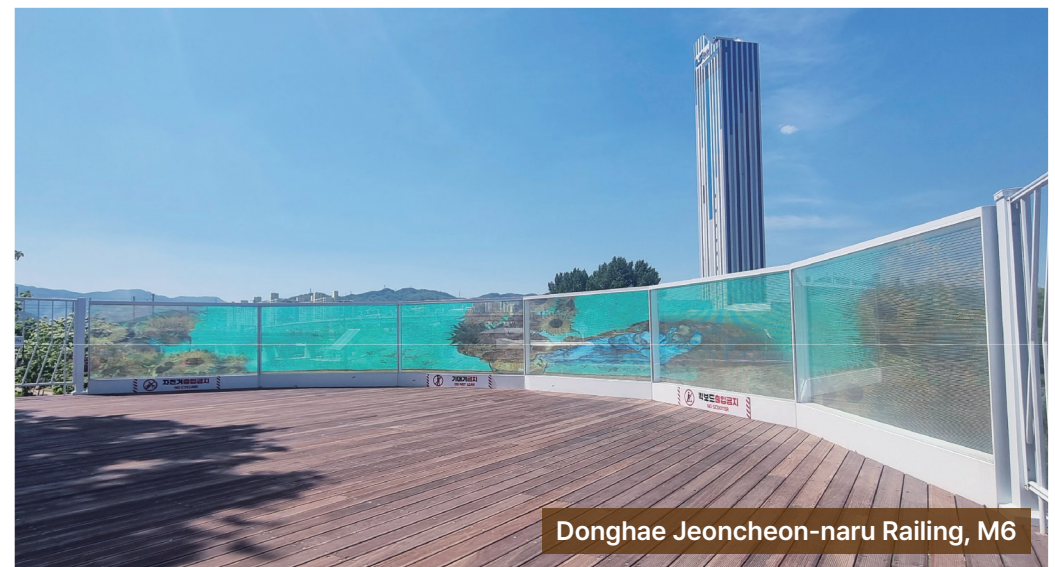
Opened in April 2026, the Bojeong Mir Human Center in Yongin City serves as a multi-cultural and welfare facility.

The double-skin media facade decorating the front of the 1st floor transcends a standard exterior wall to become an artistic canvas that interacts in real-time.

Utilizing the modular scalability of Mesh, display installations were achieved in dimensions of 5,000mm (W) x 4,000mm (H) on the front and 11,000mm (W) x 4,000mm (H) on the side.



2026 T-Mesh Installation Portfolio



Media Facades _ Architectural & Exterior

Preserving urban sightlines while infusing everyday information with vibrant media.

Integrating displays seamlessly with glass building facades preserves the original architecture while displaying spectacular media art.

Large-scale transparent facade solutions that building property value and redefine cityscapes.



Chungbuk Geumsan Insamland P8

To promote the excellence of Geumsan ginseng and medicinal herbs, this specialty product store, directly operated by Geumsan County, uses a display installed on its facade to promote products and vividly convey information about tourism in Geumsan.

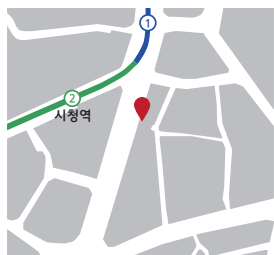
"A Media Canvas where architecture itself becomes media"



Media Walls

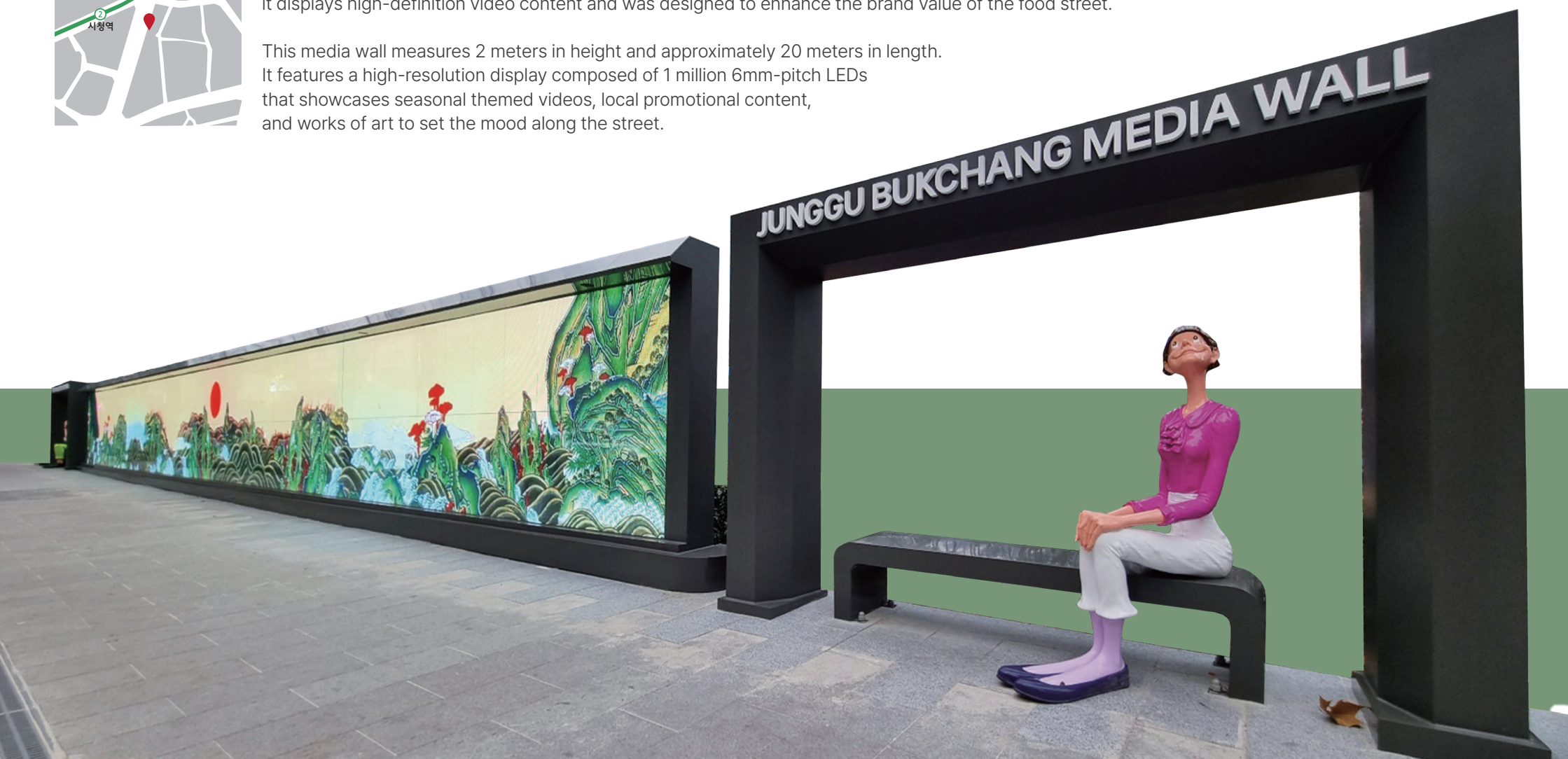
High transparency preserves natural indoor lighting and external street views while rendering high-impact media art. Replaces the suffocating look of traditional solid LED screens with open sightlines, creating landmarks that connect indoor and outdoor spaces.

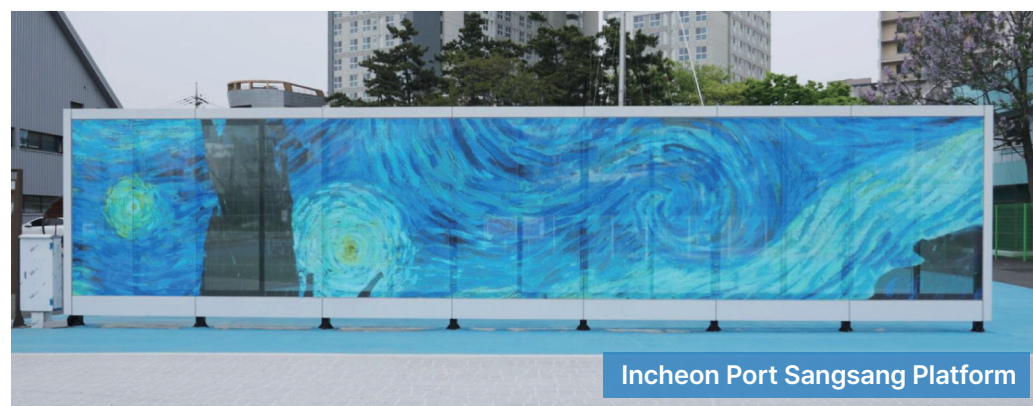
Seoul Bukchang-dong Food Street Media Wall



The media wall installed on the Food Culture Street in Bukchang-dong, Jung-gu, Seoul, was created as part of the Jung-gu District Office's landscape improvement project. Positioned at eye level for pedestrians, it displays high-definition video content and was designed to enhance the brand value of the food street.

This media wall measures 2 meters in height and approximately 20 meters in length. It features a high-resolution display composed of 1 million 6mm-pitch LEDs that showcases seasonal themed videos, local promotional content, and works of art to set the mood along the street.





Public Infrastructure _ Transit & Safety

Applied to public infrastructure such as bus shelters and subway screen doors to deliver real time information without blocking pedestrian views. Completes smart city infrastructure while maintaining open urban vistas.

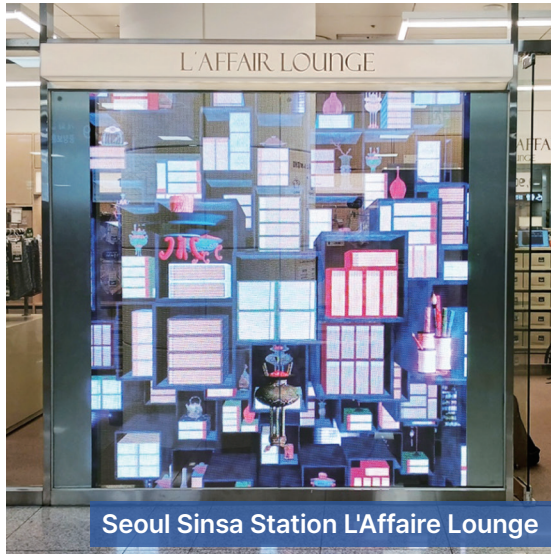


Public Infrastructure Facilities _ Transit & Information



Commercial _ Show Window Displays

Digital show windows that retain shop transparency while capturing customer attention.
Transforms ordinary window glass into dynamic promotional screens to play promotional videos.
Retail solution that maximizes space efficiency and strengthens brand awareness.



Seoul Sinsa Station L'Affaire Lounge



Tokyo P-ARK Automatic Door, Japan



Okinawa Arena, Japan, P8

International Business Cases



Harajuku Barbour Store, Tokyo, Japan



Japan Self-Defense Forces Branch



NSG Group, Japan



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A New Dimension of Transparent Display