emkoLED

A New Standard in
Professional Display Technologies

emko | tech


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About EmkoTech

With nearly 50 years of experience in the education sector, **Emko Education Solutions** stands out as a leading provider of school furniture, enamel whiteboards and concept classroom systems, offering solutions to thousands of institutions.

As the technology brand within this strong structure, **EmkoTech** leads the digital transformation in education with its interactive displays, digital signage screens, digital podiums and professional LED display solutions.

EmkoTech creates interactive and efficient communication environments for both education and business through its solid infrastructure, user-friendly approach and innovative product family.

It enhances classroom engagement with the EmkoBoard Interactive Display, supports presentations with the Emko Podium Digital Lectern, and increases content visibility across all spaces with EmkoLED Display Solutions.

Its concept systems combine traditional enamel writing surfaces with interactive boards, providing teachers with a seamless hybrid writing experience.

In 2025, **EmkoTech** continues to expand its impact beyond classrooms, bringing modern display technologies into offices, hotels, shopping centers and hospitals.

Today, EmkoTech proudly presents its newest innovation, EmkoLED.

Offering high brightness, wide viewing angles and uninterrupted 24/7 performance for both indoor and outdoor use, EmkoLED carries the EmkoTech vision to the next level.

About Us

Understanding LED Display Technology

What is EmkoLED?

EmkoLED Indoor LED Solutions

EmkoLED Outdoor LED Solutions

Understanding LED Display Technology

Thanks to their modular structure, LED displays can be designed in various aspect ratios such as 16:9, 4:3, or 1:1, and built to any desired size. The choice of module series depends on whether the installation area is indoor or outdoor. While wall mounting is the most common method, LED displays can also be easily installed on many flat surfaces. Their flexible positioning allows the screens to be relocated when needed. Operating hours, brightness levels, and other settings can be easily managed by the user.

The visual signal is transmitted through an external control unit, enabling remote content management and automatic synchronization between screens. Several key factors determine the image quality and durability of LED displays, including their design, components, and protection systems.

1. IP Protection Level
2. Pixel Pitch of Modules
3. SMD, GOB and COB Module Options

IP Protection Level

The IP code (Ingress Protection) is an international standard (IEC 60529) that indicates the level of protection a device provides against dust (solid particles) and water.

The code consists of two digits, each representing a different type of protection.

First Digit (0–6): **Protection against dust and solid objects**

Second Digit (0–8): **Water resistance**

First Digit – Dust / Solid Objects	
0	No protection
1-2	Protection against large objects (≥50 mm / ≥12.5 mm)
3-4	Protection against small tools or wires (≥2.5 mm / ≥1 mm)
5	Limited dust protection Dust may enter but does not affect its operation
6	Completely dust-tight

Second Digit - Water	
0	No protection
1-3	Protection against dripping or splashing water
4	Protection against water splashing from any direction
5	Protection against low-pressure water jets
6	Protection against high-pressure water jets
7	Protection against temporary immersion (1 meter)
8	Protection against continuous immersion

Pixel Pitch of Modules

Pixel pitch refers to the distance between the centers of two adjacent LED pixels on a display. It directly affects the resolution, image clarity, and optimal viewing distance of the screen. This measurement is usually expressed in millimeters (mm) and indicated with the letter "P" (for example: P1.5, P4, or P10).

As the pixel pitch decreases, the LEDs are placed closer together, resulting in higher resolution and sharper image quality. However, smaller pixel pitches also increase power consumption and cost.

For this reason, selecting the right pixel pitch depends on the intended application and viewing conditions.

Small Pixel Pitch (P0.7 - P2.5)

Ideal for closely viewed indoor applications.

Medium Pixel Pitch (P3 - P5)

It is preferred for semi-outdoor environments and applications with medium viewing distances.

Large Pixel Pitch (P6 - P10 and above)

It is preferred for outdoor installations that are viewed from a long distance.

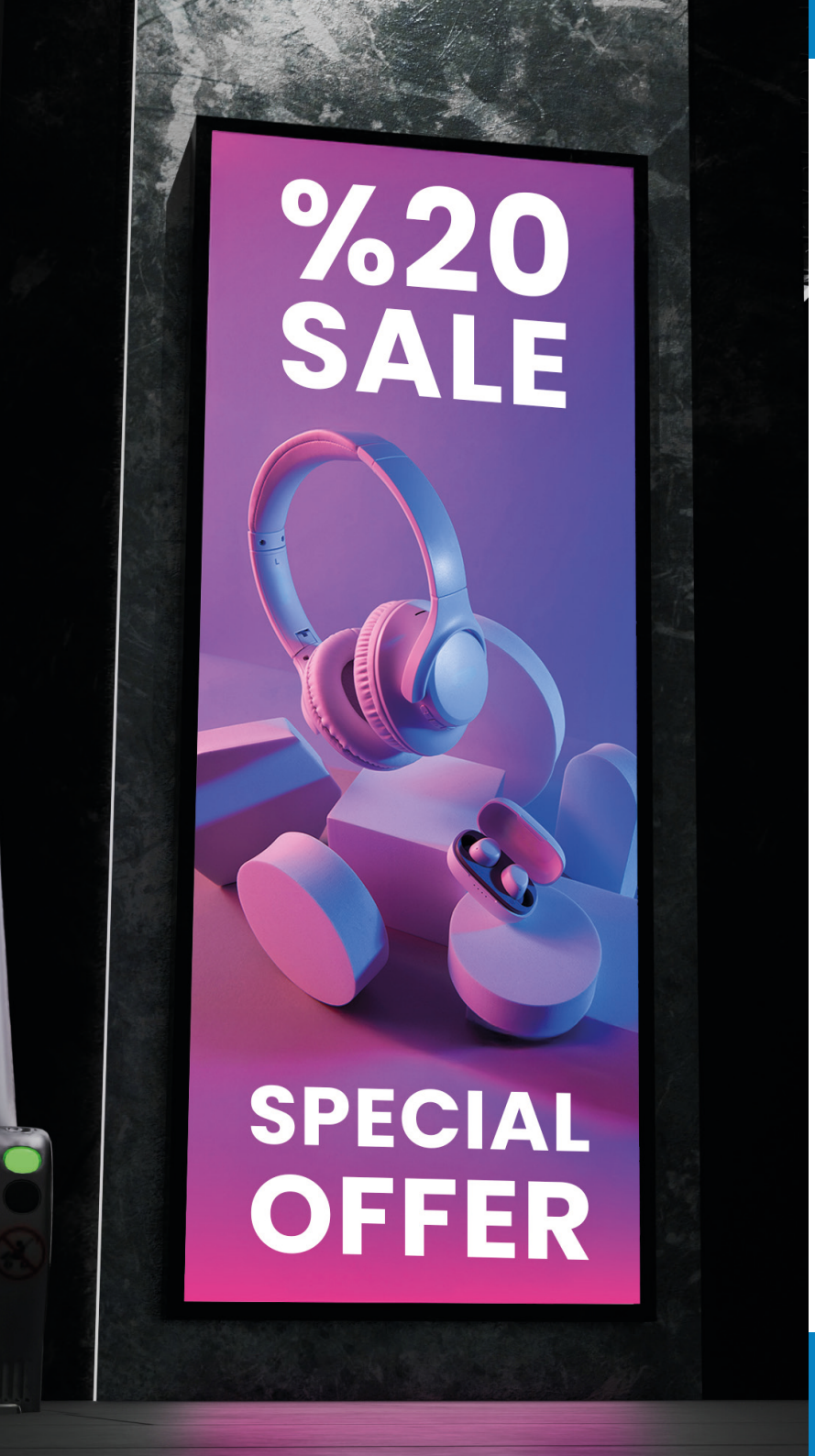
SMD, COB and GOB Module Options

The SMD, GOB, and COB technologies used in LED displays represent different manufacturing methods that determine the image quality and durability of the screen. While all three systems serve the same purpose, each offers distinct advantages depending on the application area and environmental conditions.

SMD (Surface Mounted Device), This is the most traditional technology, where the LEDs are directly mounted onto the circuit board. It offers a wide viewing angle, high brightness, and easy maintenance. Today, it is the most commonly used system for both indoor and outdoor LED displays.

GOB (Glue On Board), It is essentially an enhanced version of the SMD structure. In this technology, the surface of SMD LEDs is coated with a special transparent resin, providing protection against impact, moisture, and dust. This coating makes the display surface more durable and reduces the risk of damage during maintenance or handling.

COB (Chip On Board), This represents the most advanced stage of LED technology. In this system, the LED chips are directly integrated onto the board without any gaps between them.



Elegant Displays Indoors, Powerful Visibility Outdoors: EmkoLED for Every Space!

What is EmkoLED?

EmkoLED is a series of high-performance LED display solutions developed under the EmkoTech brand.
It is designed to meet the needs of effective, reliable and eye-catching digital communication across education, corporate, retail, cultural and public spaces.

With its high resolution and brightness levels, EmkoLED delivers elegant and detailed visuals in indoor environments, while providing clear and uninterrupted communication in outdoor applications under all weather conditions.

Combining local manufacturing strength, minimalist design, a comprehensive product portfolio and a robust technical service network, EmkoLED redefines the standards of durability and efficiency in digital display technology.

Why EmkoLED?

- Fast installation and reliable support through modular, locally built design.
- Clean design, easy maintenance, and energy efficiency for maximum performance.
- High resolution and brightness ensure clear, vivid visuals indoors and outdoors.
- With various IP protection levels, it offers long-lasting performance while minimizing the impact of environmental and weather conditions.
- Its wide viewing angle ensures maximum visibility across various installation environments.
- It offers flexible production capability and a wide resolution range from P0.7 to P10.
- EmkoLED offers tailored solutions from malls to campuses.
- A production infrastructure proficient in SMD, GOB, and COB technologies enables the optimal LED type selection for different needs.

EmkoLED Indoor LED Solutions

The Perfect Light for Every Interior,
The Right Technology for Every Scenario!

EmkoLED indoor series combine high image quality, durability, and energy efficiency across all professional environments including offices, classrooms, shopping malls, and control rooms. With a wide product range equipped with SMD, GOB, and COB technologies, they provide customized solutions for different application needs.

- High-definition visual performance for general applications focused on **information and presentation.**
- Protected module options for environments that require **resistance to physical contact and environmental factors.**
- **Exceptional stability and long lifespan** for advanced applications demanding 24/7 uninterrupted performance.

Front Maintenance | **Wide Viewing Angle** | **High Refresh Rate** | **Fanless Design** | **Remote Control** | **Synchronization Setting** | **Water Resistant** | **Fire Resistant**

EmkoLED SI-S Series

Clarity in Every Detail,
Impact from Every Angle!

EmkoLED SI-S Series

The SI-S Series combines high image quality and minimalist design, offering an efficient, cost-effective solution for professional indoor spaces such as meeting rooms, classrooms, and hotel lobbies.

- Delivers stable, long-lasting performance with SMD LEDs.
- Delivers clear and deep visuals with a 5000:1 contrast ratio.
- Ensures vivid and bright content visibility with 700–1000 nits of brightness.
- Offers smooth and seamless video transitions with a 3840 Hz refresh rate.
- Delivers uniform image quality from all directions with a 140° viewing angle.
- 14-bit grayscale technology ensures vibrant colors and natural gradations.
- Offers pixel pitch options ranging from 0.7 mm to 4 mm.
- Energy efficient with only 135 W/m² typical power use.
- Its minimalist structure easily adapts to architectural designs.
- Full front maintenance support allows fast and easy servicing.
- IP30 protection level ensures full compatibility with indoor conditions.
- Also supports a 4:3 aspect ratio.

Front Maintenance | Wide Viewing Angle | High Refresh Rate | Fanless Design | Remote Control | Synchronization Setting

Application Areas

Reception

Meeting Room

Models and Features

Technical Specifications	SI-S1.2	SI-S1.5	SI-S1.8	SI-S2	SI-S2.5	SI-S3	SI-S4
Pixel Pitch	1.25 mm	1.538 mm	1.86 mm	2 mm	2.5 mm	3.076 mm	4 mm
Pixel Configuration	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B
LED Type	SMD1010	SMD1212	SMD1515	SMD1515	SMD2121	SMD2121	SMD2121
Brightness	700-1000 cd/m²	700-1000 cd/m²	700-1000 cd/m²	700-1000 cd/m²	700-1000 cd/m²	700-1000 cd/m²	700-1000 cd/m²
Color Temperature	2000K - 9500K	2000K - 9500K	2000K - 9500K	2000K - 9500K	2000K - 9500K	2000K - 9500K	2000K - 9500K
Viewing Angle	(H)140° / (V)140°	(H)140° / (V)140°	(H)140° / (V)140°	(H)140° / (V)140°	(H)140° / (V)140°	(H)140° / (V)140°	(H)140° / (V)140°
Pixel Density	640.000 dot/m²	422.500 dot/m²	288.906 dot/m²	250.000 dot/m²	160.000 dot/m²	105.688 dot/m²	62.500 dot/m²
Module Dimensions	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm
Module Resolution	256 x 128 dot	208 x 104 dot	172 x 86 dot	160 x 80 dot	128 x 64 dot	104 x 52 dot	80 x 40 dot
IP Rating	IP30	IP30	IP30	IP30	IP30	IP30	IP30
Grayscale	14-bit	14-bit	14-bit	14-bit	14-bit	14-bit	14-bit
Contrast Ratio	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1
Refresh Rate	3840 Hz	3840 Hz	3840 Hz	3840 Hz	3840 Hz	3840 Hz	3840 Hz
Input Frequency	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Installation Mode	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted
Maintenance Mode	Front maintenance	Front maintenance	Front maintenance	Front maintenance	Front maintenance	Front maintenance	Front maintenance

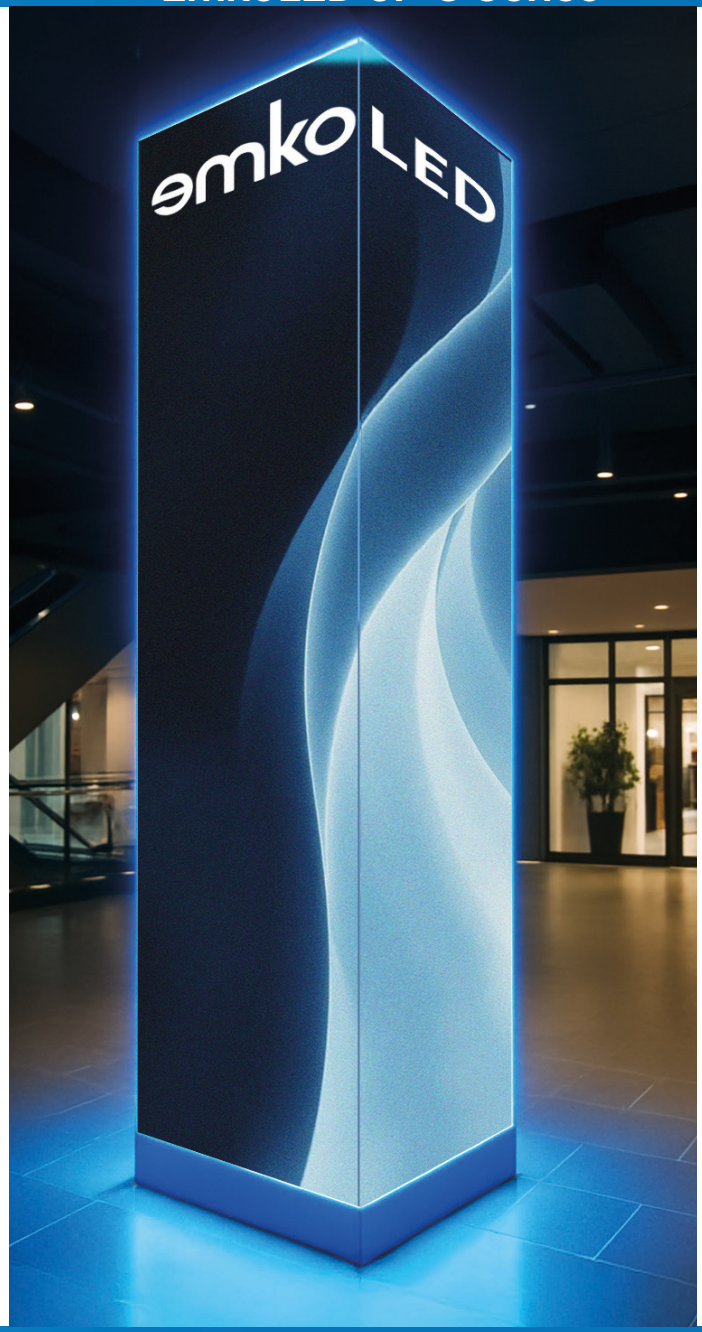
EmkoLED SI-G Series

Protected Against Challenging Environments,
Delivering Uncompromised Visual Quality!

EmkoLED SI-G Series

The SI-G Series combines GOB coating with SI-S visual performance for added durability, ideal for high-traffic areas like schools, underground stations, and malls.

- GOB technology protects the surface from scratches, impact, and moisture.
- SMD and GOB design ensure long-lasting, high-definition visuals.
- A 5000:1 contrast ratio delivers sharp light-dark detail.
- A 3840 Hz refresh rate provides smooth and seamless content display.
- 14-bit grayscale delivers rich and natural color transitions.
- Offers multiple resolution options with pixel pitches from 0.7 mm to 4 mm.
- 140° viewing angle ensures clear visibility from every direction
- 700-1000 nits of brightness deliver clear and vivid visuals in any environment.
- Front-maintenance design allows fast and easy servicing.
- The GOB coating increases the protection level to IP55.



Front Maintenance | Wide Viewing Angle | High Refresh Rate | Fanless Design | Remote Control | Synchronization Setting | Water Resistant | Fire Resistant

Application Areas

Storefront Displays

Underground Station

Models and Features

Technical Specifications	SI-G1.2	SI-G1.5	SI-G1.8	SI-G2	SI-G2.5	SI-G3	SI-G4
Pixel Pitch	1.25 mm	1.538 mm	1.86 mm	2 mm	2.5 mm	3.076 mm	4 mm
Pixel Configuration	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B
LED Type	SMD1010	SMD1212	SMD1515	SMD1515	SMD2121	SMD2121	SMD2121
Brightness	700-1000 cd/m²	700-1000 cd/m²	700-1000 cd/m²	700-1000 cd/m²	700-1000 cd/m²	700-1000 cd/m²	700-1000 cd/m²
Color Temperature	2000K - 9500K	2000K - 9500K	2000K - 9500K	2000K - 9500K	2000K - 9500K	2000K - 9500K	2000K - 9500K
Viewing Angle	(H)140° / (V)140°	(H)140° / (V)140°	(H)140° / (V)140°	(H)140° / (V)140°	(H)140° / (V)140°	(H)140° / (V)140°	(H)140° / (V)140°
Pixel Density	640.000 dot/m²	422.500 dot/m²	288.906 dot/m²	250.000 dot/m²	160.000 dot/m²	105.688 dot/m²	62.500 dot/m²
Module Dimensions	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm
Module Resolution	256 x 128 dot	208 x 104 dot	172 x 86 dot	160 x 80 dot	128 x 64 dot	104 x 52 dot	80 x 40 dot
IP Rating	IP55	IP55	IP55	IP55	IP55	IP55	IP55
Grayscale	14-bit	14-bit	14-bit	14-bit	14-bit	14-bit	14-bit
Contrast Ratio	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1	5000:1
Refresh Rate	3840 Hz	3840 Hz	3840 Hz	3840 Hz	3840 Hz	3840 Hz	3840 Hz
Input Frequency	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Installation Mode	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted
Maintenance Mode	Front maintenance	Front maintenance	Front maintenance	Front maintenance	Front maintenance	Front maintenance	Front maintenance

EmkoLED PI-C Series

Maximum Durability, Minimum Energy Consumption,
Ultimate Clarity!

EmkoLED PI-C Series

The PI-C Series is a premium solution specially developed for high-precision visual presentations, 24/7 continuous operation, and prestigious indoor applications. It is designed for museums, TV broadcast studios, medical simulation centers, and VIP presentation halls.

- Flip-Chip design lowers heat and failure risk.
- Mini Flip COB structure offers high pixel density and comfortable close viewing.
- A 10,000:1 contrast ratio delivers exceptional image depth.
- Nano-optical coating minimizes reflections for greater clarity.
- A 3840 Hz refresh rate ensures smooth, uninterrupted video playback.
- 14-bit grayscale delivers natural transitions and rich colors.
- Pixel pitches from P0.7 to P1.5 provide ultra-high resolution.
- 160° viewing angle ensures clear, consistent visuals.
- 700–1000 nits brightness ensures vivid, clear visuals.
- Full front maintenance allows quick and easy technical service.
- IP65 protection provides resistance against dust and water splashes.
- 24/7 operation ensures uninterrupted performance in critical environments.

Front Maintenance | Wide Viewing Angle | High Refresh Rate | Fanless Design | Remote Control | Synchronization Setting | Water Resistant | Fire Resistant

Application Areas

Museum

Models and Features

Technical Specifications	PI-C0.9	PI-C1.2	PI-C1.5
Pixel Pitch	0.9375 mm	1.25 mm	1.5625 mm
LED Type	Flip COB	Flip COB	Flip COB
Brightness	700-1000 cd/m²	700-1000 cd/m²	700-1000 cd/m²
Contrast Ratio	10000:1	10000:1	10000:1
Power Input (Maximum)	370 W/m²	350 W/m²	350 W/m²
Power Input (Typical)	125 W/m²	120 W/m²	120 W/m²
Viewing Angle	(H)160° / (V)160°	(H)160° / (V)160°	(H)160° / (V)160°
Refresh Rate	3840 Hz	3840 Hz	3840 Hz
IP Rating	Front: IP65, Rear: IP43	Front: IP65, Rear: IP43	Front: IP65, Rear: IP43
Installation Mode	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted
Maintenance Mode	Front maintenance	Front maintenance	Front maintenance

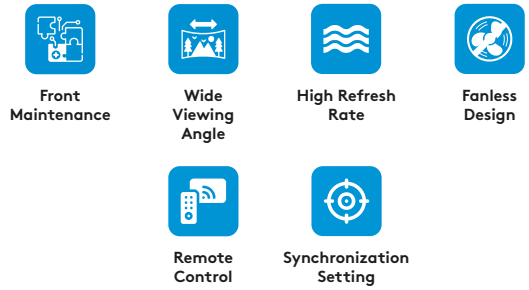
Control Room

Technology That Brings Flexibility, Design Without Limits!

EmkoLED FX Series

The FX Series is an ultra-flexible indoor LED display line specially designed for aesthetic and creative environments such as stage design, museum exhibitions, and showrooms. With its lightweight structure, flexibility, and high image quality, it surpasses the limitations of traditional flat panels.

- Flexible panel design enables creative installations on curved and custom surfaces.
- 700–1000 nits brightness ensures clear and vibrant indoor visuals.
- A 3840 Hz refresh rate delivers smooth, flicker-free video playback.
- 140° viewing angle ensures consistent image quality.
- 14-bit grayscale and high contrast deliver rich, well-balanced visuals.
- Lightweight design allows quick setup and minimal structural load.
- Front maintenance support enables easy service in tight spaces.



Application Areas

Showroom

Scoreboards

Models and Features

Technical Specifications	FX1.86	FX2.5
Pixel Pitch	1.86 mm	2.5 mm
Pixel Structure	SMD1515	SMD2020
Module Resolution	172 x 86 dot	128 x 64 dot
Module Dimensions	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm
Module Weight	0.2 ± 0.01 kg	0.187 ± 0.01 kg
Module Input Voltage	4.2–5.0 V	4.2–5.0 V
Maximum Current	≤ 6.5 A	≤ 6.5 A
Power Consumption	≤ 32.5 W	≤ 32.5 W
White Balance Brightness	550 nit	550 nit
Viewing Angle	(H)140° / (V)140°	(H)140° / (V)140°
Color Distribution Equality	≥ 95%	≥ 95%
Contrast Ratio	3000:1	3000:1
Operating Frequency	60 Hz	60 Hz
Driving Method	Constant current, 1/43 scan	Constant current, 1/43 scan
Color Processing Depth	14-bit	14-bit
Refresh Rate	3840 Hz	3840 Hz
Installation Mode	Wall and floor mounted	Wall and floor mounted
Maintenance Mode	Front maintenance	Front maintenance

Event Area

EmkoLED Outdoor LED Solutions

Full Visibility Outdoors, Maximum Performance in Every Condition!

EmkoLED outdoor LED solutions are specially developed to perform in every scenario, from the busiest urban locations to the most demanding weather conditions.
The **SO Series** offers a simple structure and practical features, making it an ideal choice for organizations entering the outdoor display segment. The **PO Series** distinguishes itself in large-scale professional projects with its durable build and architectural flexibility.
Both series embody EmkoLED's commitment to continuous visibility and strong communication outdoors, providing high brightness, wide viewing angles, and resistance to outdoor conditions.

Front Maintenance | **Rear Resistant** | **High Refresh Rate** | **Fanless Design** | **Remote Control** | **Synchronization Setting** | **Water Resistant** | **Fire Resistant** | **Wide Viewing Angle**

EmkoLED SO Series

Adaptable Design, Wide Visibility!
EmkoLED SO Series

The SO Series is a strong option for entry-level outdoor applications, offering easy installation and high visibility with its simplified design. It provides long-lasting and clear communication in areas such as school yards, municipal bulletin boards, building facades, and directional signage.

- Front Maintenance
- Wide Viewing Angle
- High Refresh Rate
- Fanless Design
- Remote Control
- Synchronization Setting
- Water Resistant
- Fire Resistant

- Offers clear and eye-catching visuals outdoors with 5000–7000 nits brightness.
- Ensures smooth and flicker-free outdoor display performance with a 3840 Hz refresh rate.
- 160° wide viewing angle delivers clear and impactful visuals from multiple directions.
- IP65 front and IP58 rear protection provide strong resistance to harsh weather conditions.
- Modular design with front and rear access allows fast maintenance after installation.
- SMD LED technology ensures long-lasting, stable performance with minimal maintenance.

Application Areas

Bus Station

Campus Entrance

Models and Features

Technical Specifications	SO3	SO4	SO5	SO6	SO8	SO10
Pixel Pitch	3.076 mm	4 mm	5.71 mm	6.67 mm	8 mm	10 mm
Pixel Configuration	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B
LED Type	SMD1415	SMD1921	SMD1921	SMD3535	SMD3535	SMD3535
Brightness	5000-7000 cd/m²	5000-7000 cd/m²	5000-7000 cd/m²	5000-7000 cd/m²	5000-7000 cd/m²	5000-7000 cd/m²
Color Temperature	3500K - 9300K	3500K - 9300K	3500K - 9300K	3500K - 9300K	3500K - 9300K	3500K - 9300K
Viewing Angle	(H)160° / (V)160°	(H)160° / (V)160°	(H)160° / (V)160°	(H)160° / (V)160°	(H)160° / (V)160°	(H)160° / (V)160°
Pixel Density	105.625 dot/m²	40.000 dot/m²	40.000 dot/m²	22.500 dot/m²	15.625 dot/m²	10.000 dot/m²
Module Size	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm	(H)320 mm x (V)160 mm
Module Resolution	104 x 52 dot	80 x 40 dot	64 x 32 dot	48 x 24 dot	40 x 20 dot	32 x 16 dot
Grayscale	14-bit	14-bit	14-bit	14-bit	14-bit	14-bit
Contrast Ratio	3000:1	3000:1	3000:1	3000:1	3000:1	3000:1
Refresh Rate	3840 Hz	3840 Hz	3840 Hz	3840 Hz	3840 Hz	3840 Hz
Power Input (Maximum)	900 W/m²	900 W/m²	900 W/m²	900 W/m²	900 W/m²	900 W/m²
Power Input (Typical)	300 W/m²	300 W/m²	300 W/m²	300 W/m²	300 W/m²	300 W/m²
IP Rating	Front: IP65, Rear: IP58	Front: IP65, Rear: IP58	Front: IP65, Rear: IP58	Front: IP65, Rear: IP58	Front: IP65, Rear: IP58	Front: IP65, Rear: IP58
Installation Type	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted
Maintenance Mode	Front maintenance	Front maintenance	Front maintenance	Front maintenance	Front maintenance	Front maintenance

EmkoLED PO Series

Powerful Visibility, Wherever You Stand

EmkoLED PO Series

The PO Series is engineered to deliver high performance in outdoor environments, even under the most demanding conditions. Its ultra-durable construction, dual maintenance access, and multi-angle installation options provide maximum flexibility for building corners, curved screens, and large advertising towers.

- SMD1515 / 1921 technology delivers high outdoor brightness and strong contrast.
- 3840 Hz ultra refresh rate ensures smooth and professional video transitions.
- 5000–7000 nits brightness provides clear and continuous visibility even in daylight.
- 160° viewing angle ensures clear visuals from any direction.
- IP68 front and IP66 rear protection ensure high resistance to harsh weather conditions.
- Fanless design enables silent operation with no need for additional cooling.
- Front and rear maintenance access simplify installation and service operations.
- Complies with 5VB fire resistance standard for enhanced safety and durability.
- Supports flat and curved 90° corner assemblies for seamless architectural integration.
- At 77 mm thin and 17 kg, it's compact and lightweight.
- P2.97–P4.81 pixel pitch suits both near and distant viewing.

Front Maintenance | Rear Maintenance | High Refresh Rate | Fanless Design | Remote Control | Synchronization Setting | Water Resistant | Fire Resistant | Wide Viewing Angle

Application Areas

Facade Applications

Curved Screens

Models and Features

Technical Specifications	PO2.97	PO3.91	PO4.81
Pixel Pitch	2.97 mm	3.91 mm	4.81 mm
Pixel Configuration	1R1G1B	1R1G1B	1R1G1B
LED Type	SMD1515	SMD1921	SMD1921
Brightness	5000-7000 cd/m²	5000-7000 cd/m²	5000-7000 cd/m²
Color Temperature	3500K - 10000K	3500K - 10000K	3500K - 10000K
Viewing Angle	(H)160° / (V)160°	(H)160° / (V)160°	(H)160° / (V)160°
Pixel Density	112.896 dot/m²	65.536 dot/m²	43.264 dot/m²
Module Size	250 mm x 250 mm	500 mm x 250 mm	500 mm x 250 mm
Module Resolution	84 x 84 dot	128 x 64 dot	104 x 52 dot
Grayscale	14-bit	14-bit	14-bit
Contrast Ratio	6000:1	6000:1	6000:1
Refresh Rate	3840 Hz	3840 Hz	3840 Hz
Power Input (Maximum)	680 W/m²	650 W/m²	650 W/m²
Power Input (Typical)	180 W/m²	180 W/m²	180 W/m²
IP Rating	Front: IP68, Rear: IP66	Front: IP68, Rear: IP66	Front: IP68, Rear: IP66
Installation Type	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted
Maintenance Access	Front maintenance	Front maintenance	Front maintenance

Road Signs

EmkoLED Is Founded on
Emko's R&D Strength in Education.

From the Education Expert, the Perfect LED Solution for Schools: EmkoLED

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