



Your Trustworthy Display Solution Provider



The beauty of nature can be presented on LianTronics displays,  
but it deserves to be better presented in real life too.  
Recycle and protect our home.

#### LIANTRONICS CO., LTD.

HQ.Add: 16/F, Block B4, Building 9, Zone 2, Shenzhen Bay Science and Technology Ecological Park,  
Nanshan District, Shenzhen, China

Hotline: +86-755-23001729 Website: [www.liantronics.com](http://www.liantronics.com) E-mail: [service@liantronics.com](mailto:service@liantronics.com)



## Outdoor Fixed LED Display

*Deliver Impressive & Impactful Outdoor Digital Visuals*

*To be Your Trustworthy Display Solution Provider*

# *Deliver Impressive & Impactful Outdoor Digital Visuals*

The technologies of outdoor LED displays have advanced over time, evolving from monochrome to colorful and from flat graphics to 3D visuals without glasses. Outdoor LED displays are progressively assuming a more firm position and development in the present outdoor digital visuals market. As a result, market requirements and standards in the future will both be higher.

LianTronics has long been a pioneer in the LED market as the top brand for outdoor LED display solutions. With the highest-standard quality control, most cutting-edge technologies and in-depth insight of the market, LianTronics outdoor LED displays have been extensively applied in DOOH, sports, transportation, naked eye 3D creativity, etc. Chosen by numerous customers, LianTronics is the preferred outdoor LED display product provider for you.

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# LianTronics Profile ▼

## Your Trustworthy Display Solution Provider

LianTronics is a leading display solution provider specializing in LED application products from R&D, manufacturing, sales to service. Integrated with comprehensive advantages of two sub-brands--- "LianTronics" and "Esdlumen", LianTronics has developed into a large-scale international company, accumulating 40,000+ projects in various application around the world.



### Enterprise Scale

Listed in 2011  
\$88 million registered capital  
1300+ employees



### High-Tech Enterprise

300+ technical staff  
400+ national patents  
10 leading technologies



### Industry-Leading Quality

80000sqm manufacturing base  
A-Z full-chain production  
Military-level quality



### Sincere Service

200+ countries & regions network  
One-stop full-chain service  
24/7 customer service support

## Intelligent Manufacturing



### Manufacturing Base

80000sqm manufacturing base in Huizhou Daya Bay, Guangdong, with worldwide frontline production capacity.



### Production Capacity

Fine-pitch LED display: 5000sqm/month; Comprehensive production capacity: 15000sqm/month; Up to \$300 million annual value of production.



### World-Leading Equipment

Japanese CNC punching machine, Three-dimensional precision machine, USA Universal auto-inserting machine, Japanese Fuji SMT, Smart electronic fuel injection, etc.



### Superior Quality

70+ processes & 100+ rigorous tests with higher industry standards to achieve military-grade quality.



### Smart Management

Introduces MES & APS intelligent management modes for higher efficiency.

## Technical Innovation

### State-Level High-Tech Enterprise

4% of annual turnover as R&D investment

400+ national patents

3D prototyping processing center

Municipal Engineering Lab (EMC lab inclusive)

### 10 Pioneering Leading Technologies

1 Non-shutdown Fine-Pitch LED Display Technology

3 High-Precision Die-casting Cabinet Processing

5 High Color Consistency of LED Billboard Technology

7 Centralized Power Supply Technology

9 Mini LED Display Technology

2 Smart Mask-free Inkjet Technology

4 Energy-Saving Technology

6 "3-to-1" Full Color Technology

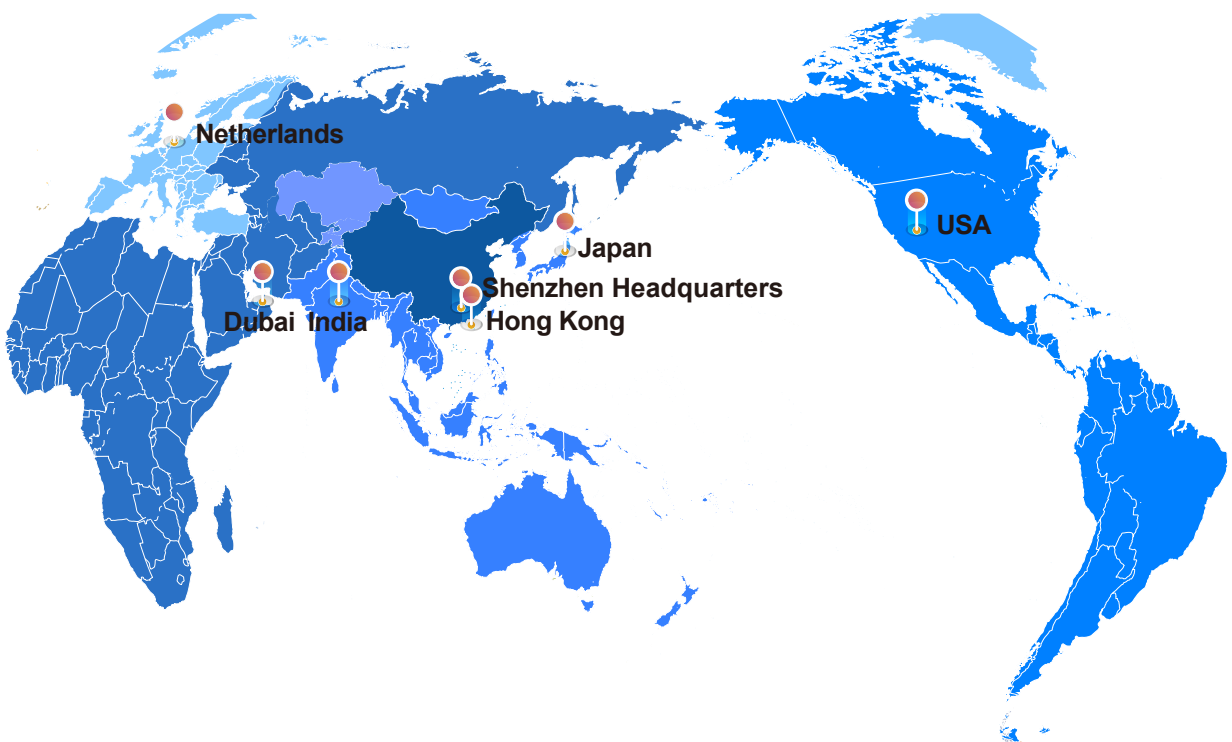
8 6-Axis & 3-Dimensional Minitrim Technology

10 "N+X" Power Redundancy Technology

## Global Service Network

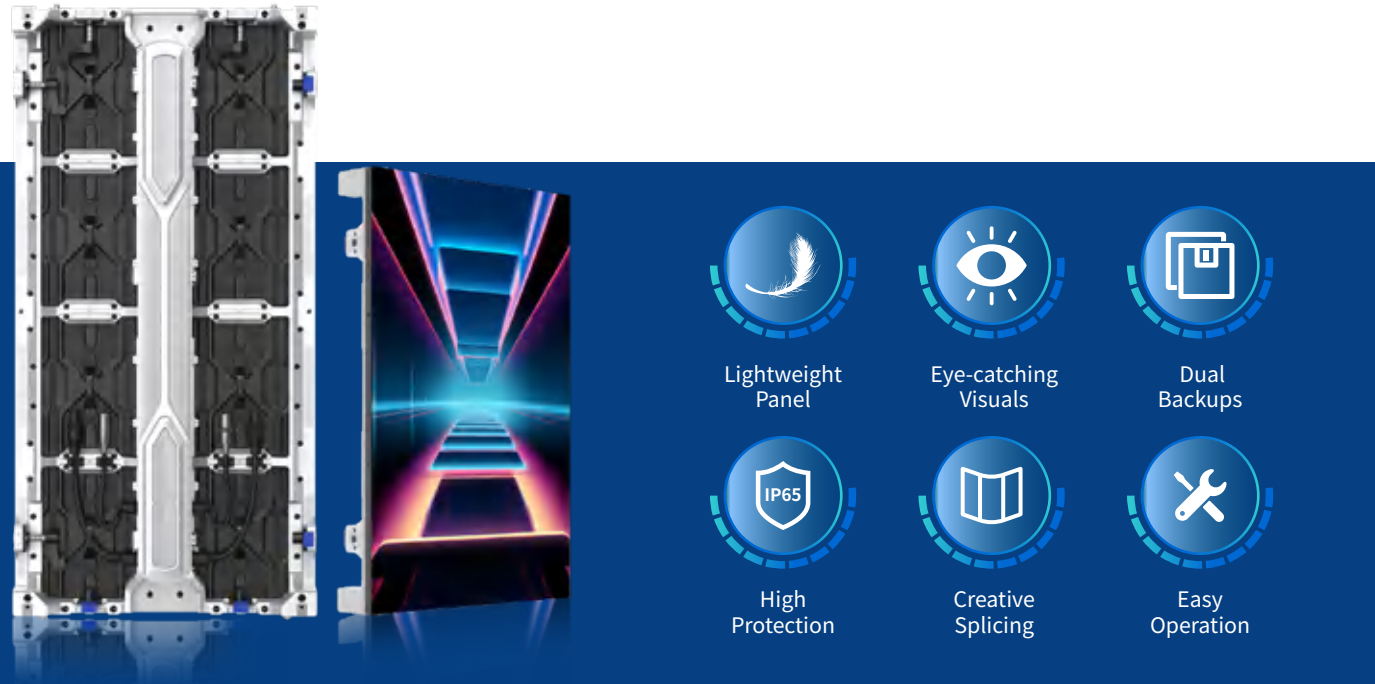
Multiple international subsidiaries with worldwide coverage.

Over-500-people sales & technical team to provide professional service from pre-sales to after-sales.



# MPA ProII Series

## Outdoor Small-pitch Fixed LED Display



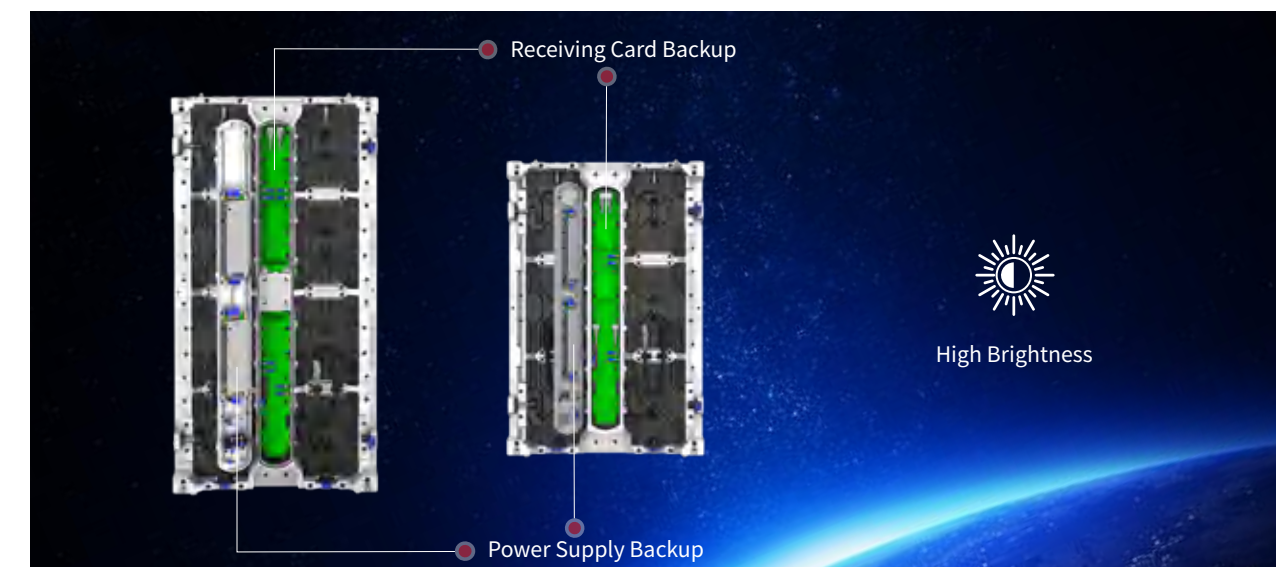
### ◆ Eye-catching Visuals

- Excellent heat dissipation for ultra-high color consistency
- Support black LEDs for ultra-high contrast ratio
- DHR (Deformation and High-temperature Resistance) masks (for P2.6 & P2.9 models) eliminate warped and bulged masks and side-view black spots



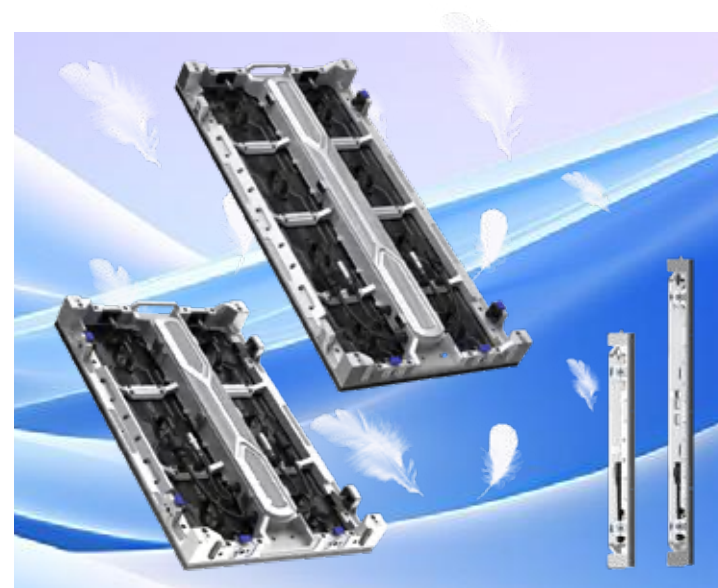
### ◆ Dual Backups with High Brightness as Ever

- Support backups of power supply and receiving cards to ensure high stability, and yet without compromising brightness



### ◆ Die-casting Aluminum Panel

- High-precision cutting for high flatness
- 29kg/m<sup>2</sup> lightweight panel design for effortless single-person handling and save transportation and labor costs



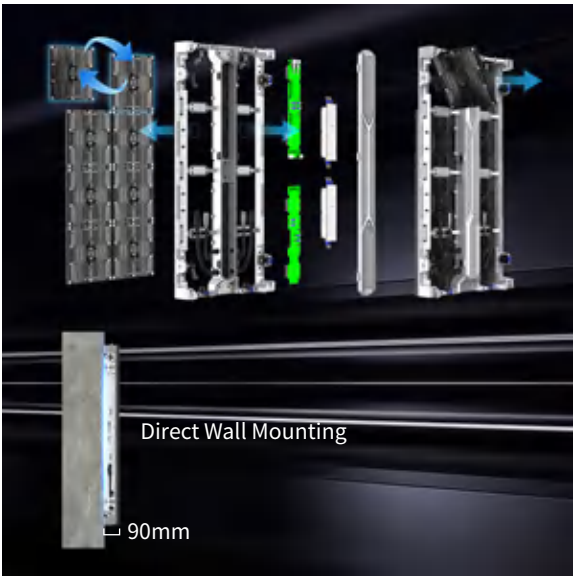
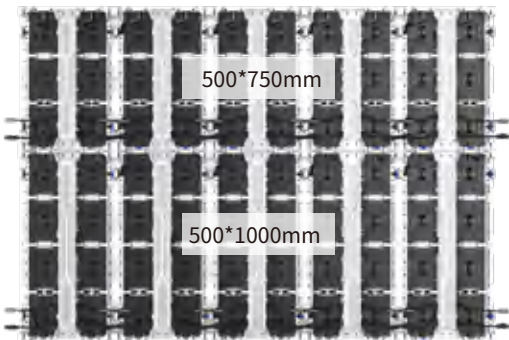
◆ IP65 High Protection

- IP65 rated from both front and rear
- Support IP66 higher protection
- Magnetic module design with safety ropes



◆ Creative Splicing

- Mixed splicing between different-sized panels
- 45° bevel-cut modules & panels for L-shaped seamless splicing
- Mixed splicing with E-Corner Series for round corner shapes



◆ Easy Installation & Maintenance

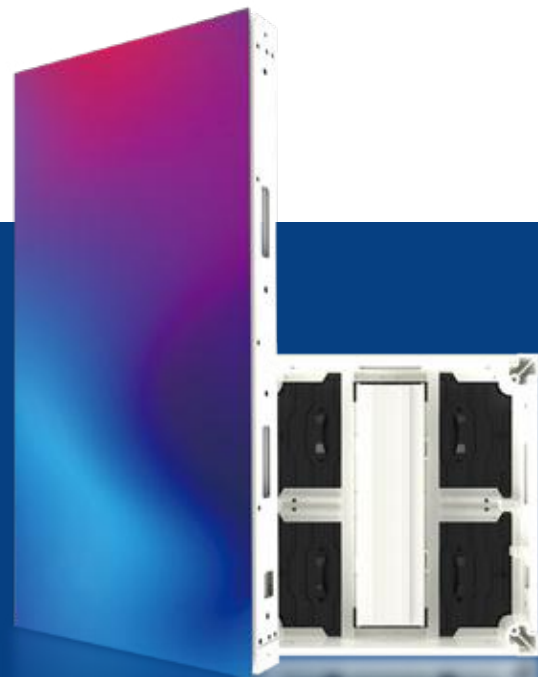
- Support direct wall mounting with finished screen as thin as 90mm
- Optional fast locks for quick installation
- All panel parts support both front & rear maintenance
- Left-right universal modules reduce spare costs
- Support smart module function for pixel inspection and auto data retrieval after module replacement

| Model                            | MPA Pro II 2.6           | MPA Pro II 2.9    | MPA Pro II 3.9  | MPA Pro II 4.8  |
|----------------------------------|--------------------------|-------------------|-----------------|-----------------|
| Pixel Pitch (mm)                 | 2.6                      | 2.9               | 3.9             | 4.8             |
| Pixel Density (Pixels/m²)        | 147456                   | 112896            | 65536           | 43264           |
| LED Type                         | SMD                      |                   |                 |                 |
| Panel Size W*H*D (mm)            | 500*1000*90 / 500*750*90 |                   |                 |                 |
| Panel Resolution W*H (Pixel)     | 192*384/192*288          | 168*336 / 168*252 | 128*256/128*192 | 104*208/104*156 |
| Panel Material                   | Die - Casting Aluminum   |                   |                 |                 |
| Panel Weight (Kg/pc)             | 14.5/11.5                |                   |                 |                 |
| Voltage (V)                      | AC 100~240               |                   |                 |                 |
| Brightness (nits)                | 4500~5000                | 4500~5000         | 5000~6000       | 5000~6000       |
| Viewing Angle (V/H)              | 160° / 140°              |                   |                 |                 |
| Gray Scale (bit)                 | 14                       |                   |                 |                 |
| Refresh Rate (Hz)                | 3840                     |                   |                 |                 |
| Frame Rate (Hz)                  | 50/60                    |                   |                 |                 |
| Maintenance                      | Front/Rear               |                   |                 |                 |
| Color Temperature (K)            | 2000~10000(Adjustable)   |                   |                 |                 |
| Average Power Consumption (W/m²) | 180                      |                   |                 |                 |
| Maximum Power Consumption (W/m²) | 720                      |                   |                 |                 |
| IP Rating                        | IP65                     |                   |                 |                 |
| LED Lifetime (Hours)             | 100000                   |                   |                 |                 |

\*Please kindly note that HOB LEDs do not resist ultraviolet rays and are not recommended to use in full outdoor environment.  
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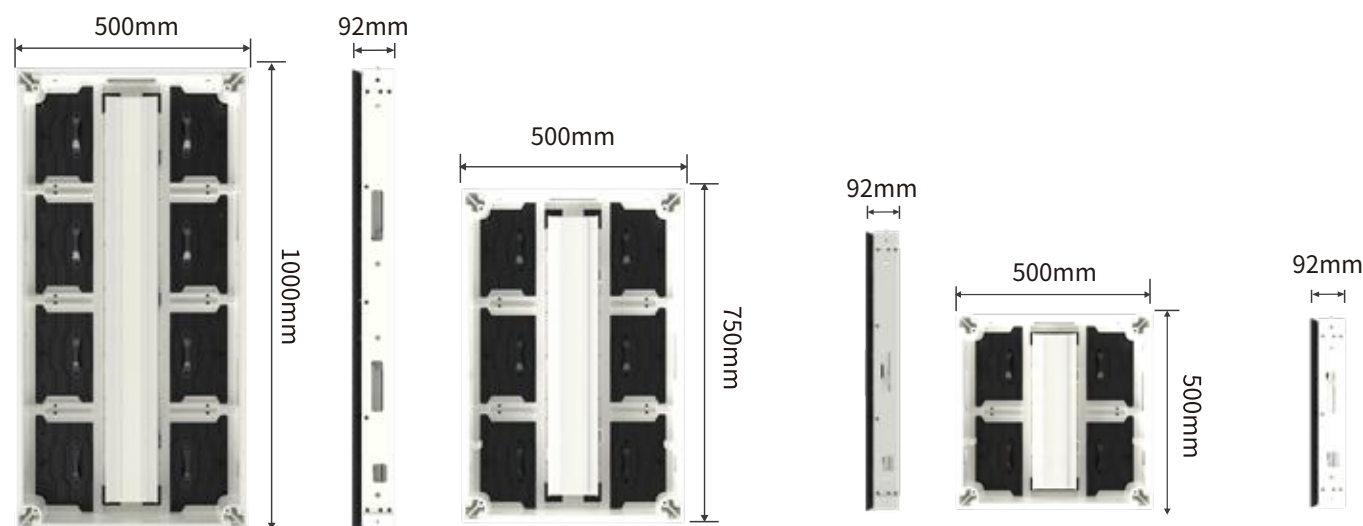
# MPA Pro Series

## Small-Pitch Outdoor Fixed LED Display



### ◆ Thinner, Lighter & More Size Choices

- Ultra-thin and ultra-light cabinets, with only 92mm thickness and 32kg/m<sup>2</sup> weight, save the cost of steel structure and installation; Different cabinet sizes can offer more splicing choices for easy installation.



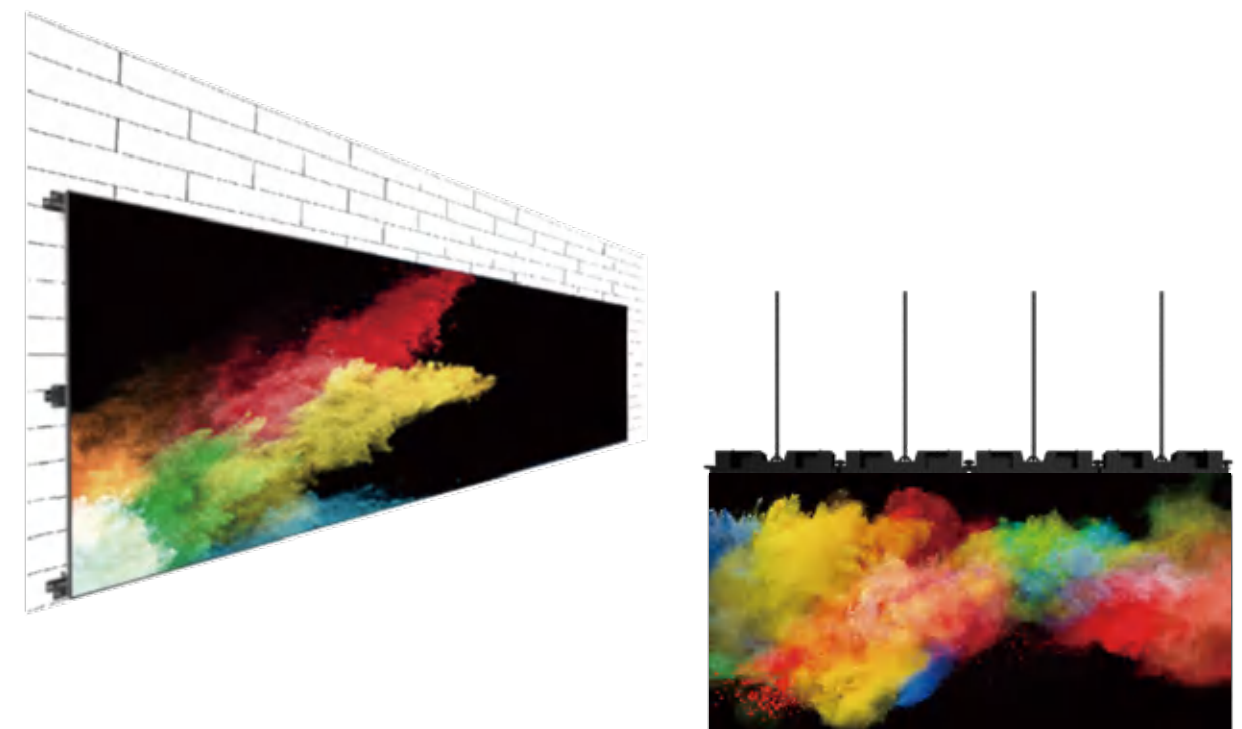
### ◆ Durability in Any Weather

- IP65 high protection can not only ensure super stable & long-lasting operation but also work outdoors durably for all weather conditions.



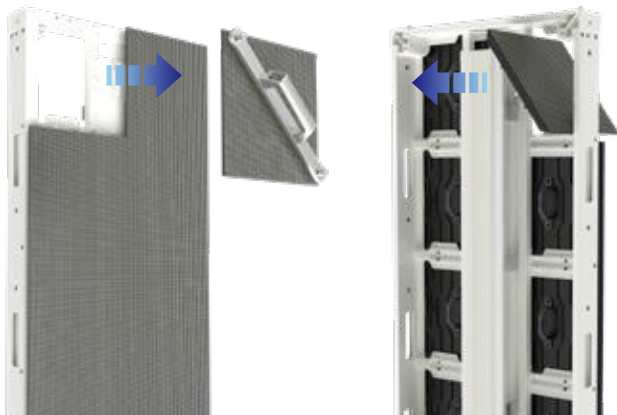
### ◆ Flexible Installation

- Support multiple installation methods like wall-mounting, hanging, etc.



Total Front / Rear Maintenance

- MPA Pro series allows flexible front & rear maintenance which can be chosen according to on-site conditions flexibly.



\*The mixed splicing effect is for reference only.

Mixed Splicing

- MPA Pro Series supports mixed splicing among different-sized panels seamlessly for high flexibility while ensuring smooth playback.

Superior Display, Excellent Performance

- 3840Hz ultra-high refresh rate and high brightness guarantee clear picture quality even in bright sunshine; Stable performance enables sharp and vivid images even after year-to-year use.



| Model                            | MPA Pro2.6               | MPA Pro2.9         | MPA Pro3.9                              | MPA Pro4.8                                              | MPA Pro5.9                                  |
|----------------------------------|--------------------------|--------------------|-----------------------------------------|---------------------------------------------------------|---------------------------------------------|
| Pixel Pitch (mm)                 | 2.6                      | 2.9                | 3.9                                     | 4.8                                                     | 5.9                                         |
| Pixel Density (Pixels/m²)        | 147456                   | 112896             | 65536                                   | 43264                                                   | 28224                                       |
| LED Package                      | SMD                      |                    |                                         |                                                         |                                             |
| Module Size (mm*mm)              | 250*250                  |                    |                                         |                                                         |                                             |
| Module Resolution (Pixels)       | 96*96                    | 84*84              | 64*64                                   | 52*52                                                   | 42*42                                       |
| Panel Material                   | Aluminum                 |                    |                                         |                                                         |                                             |
| Panel Size W*H*D (mm)            | 500*750*80<br>750*500*80 |                    | 500*500*92<br>500*750*92<br>500*1000*92 | 500*500*92<br>500*750*92<br>500*1000*92<br>1000*1000*92 | 1000*1250*92<br>500*1250*92<br>1000*1000*92 |
| Panel Resolution                 | 192*288<br>228*192       | 168*252<br>252*168 | 128*128<br>128*192<br>128*256           | 104*104<br>104*156<br>104*208<br>208*208                | 168*210<br>84*210<br>168*168                |
| Panel Weight (Kg/m²)             | 32                       |                    |                                         |                                                         |                                             |
| Voltage (V)                      | AC 110~220V              |                    |                                         |                                                         |                                             |
| Brightness (nits)                | 4500~5000                | 4500~5000          | 5000~5500                               | 5000~5500                                               | 6000                                        |
| Viewing Angle (V/H)              | 160° / 120°              |                    |                                         |                                                         |                                             |
| Grayscale (Bit)                  | 14                       |                    |                                         |                                                         |                                             |
| Refresh Rate (Hz)                | 3840                     | 3840               | 1920/3840                               | 1920/3840                                               | 1920/3840                                   |
| Contrast Ratio                   | 6000:1                   |                    |                                         |                                                         |                                             |
| Color Temperature                | 2000~10000(Adjustable)   |                    |                                         |                                                         |                                             |
| Maximum Power Consumption (W/m²) | 750                      |                    |                                         |                                                         | 850                                         |
| Average Power Consumption (W/m²) | 185                      |                    |                                         |                                                         | 210                                         |
| Maintenance                      | Front/Rear               |                    |                                         |                                                         |                                             |
| Ingress Protection               | IP65                     |                    |                                         |                                                         |                                             |
| Lifespan (H)                     | 100000                   |                    |                                         |                                                         |                                             |

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# MPA Mini Series

High Protection & Definition Outdoor Small-Pitch LED Display





Patented  
DHR Mask



High  
Precision



Sharp  
Image



Full  
Protection



Fast  
Lock



Dual  
Backup

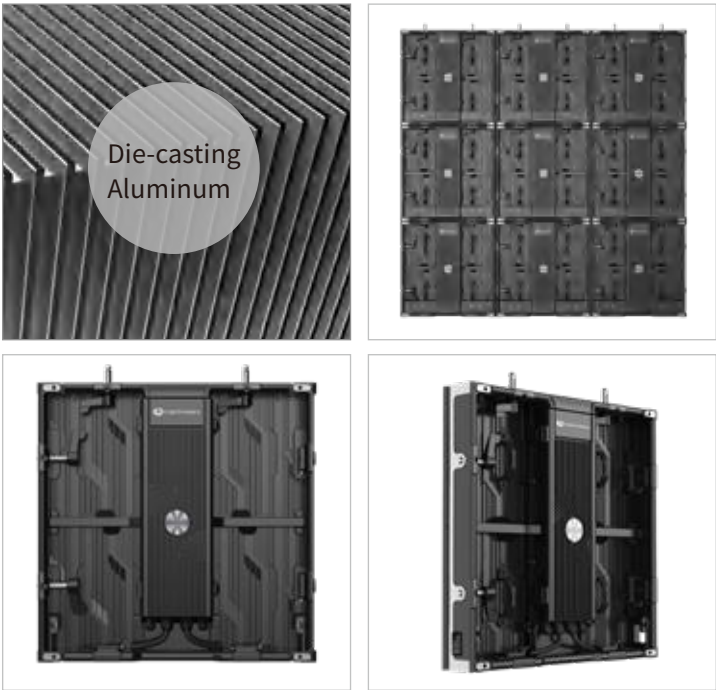
## ◆ Patented DHR Mask, Professional Design

- The patented DHR (Deformation and High-temperature Resistance) Mask is specially designed for outdoor small-pitch products to solve the problems of warped and bulged masks resulted from high temperature, lamp failure caused by extrusion of deformed masks, and black spots in the side view.



## ◆ Higher Precision, Greater Flatness

- One-piece molded die-casting aluminum cabinets ensure high precision for high flatness, good for P1.X outdoor small-pitch LED display splicing; Sturdy die-casting aluminum shells resist distortion well in the high temperature.



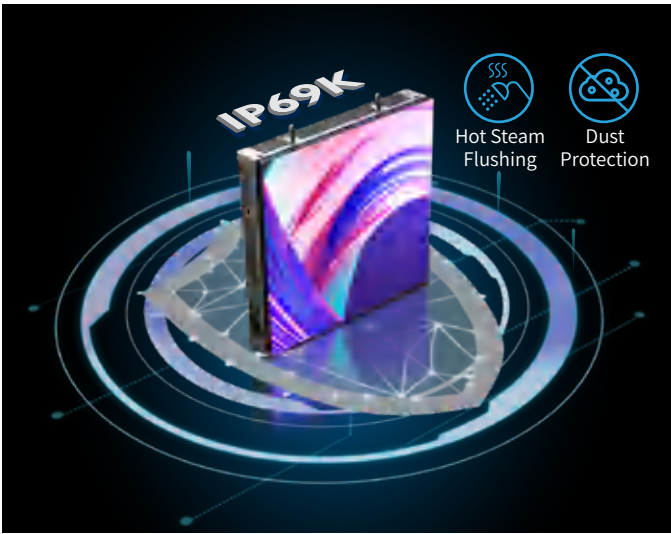
## ◆ Stunning HD Display

- Super-high contrast ratio, 4500nits high brightness, and 3840Hz high refresh rate guarantee colorful & gorgeous HD/4K/8K display. Meanwhile MPA Mini supports HDR display to create exquisite & sharp picture quality for a close viewing.



◆ IP69K Full Protection

- Specific IP69K extreme high protection can withstand the flushing of high pressure and hightemperature water to suit all cruel conditions, enhancing the screen’ s lifespan.

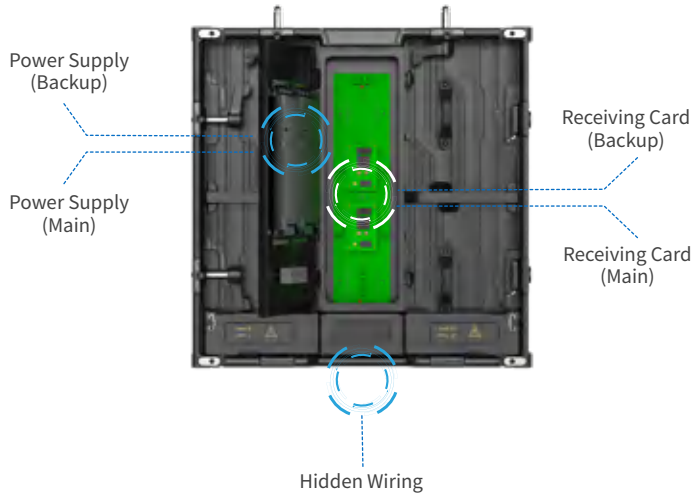


◆ Easy Installation & Maintenance

- Fast lock enables the hassle-free installation to increase efficiency; Front & rear maintenance are available to fit in various outdoor application scenarios.

◆ Reliable Stability

- Optional dual backup for power supply and receiving card solves the LED wall blackout problem; Excellent heat dissipation and hidden wiring also ensure daily safe and stable operation.



| Model                            | MPA Mini2.6                   | MPA Mini2.9 |
|----------------------------------|-------------------------------|-------------|
| Pixel Pitch (mm)                 | 2.6                           | 2.9         |
| Pixel Density (Pixels/m²)        | 147456                        | 112896      |
| LED Type                         | SMD                           |             |
| Module Size W×H( mm)             | 250*250                       |             |
| Module Resolution W×H( mm)       | 96*96                         | 84*84       |
| Panel Size W×H×D( mm)            | 500*500*80                    |             |
| Panel Resolution W×H             | 192*192                       | 168*168     |
| Panel Material                   | Die-casting Aluminum          |             |
| Weight (Kg/pc)                   | 10                            |             |
| Voltage (V)                      | AC 100-240                    |             |
| Brightness (nits)                | 4500                          |             |
| Brightness Adjustment            | Programmable/Automatic/Manual |             |
| Viewing Angle (H/V)              | 160°/ 140°                    |             |
| Gray Scale (bit)                 | 14                            |             |
| Refresh Rate (Hz)                | 3840                          |             |
| Contrast Ratio                   | 5000:1                        |             |
| Color Temperature (K)            | 2000~10000 (Adjustable)       |             |
| Maximum Power Consumption (W/m²) | 750                           |             |
| Average Power Consumption (W/m²) | 187                           |             |
| Maintenance                      | Front / Rear                  |             |
| IP Rating                        | IP69K                         |             |
| LED Lifetime (Hours)             | 100000                        |             |

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# E-Corner Series

## 90° Small Arc Corner LED Display Solution



### ◆ Die-Casting Aluminum Panel

- High-precision die-casting aluminum cutting facilitates higher flatness and accuracy, and lightweight panel for effortless handling



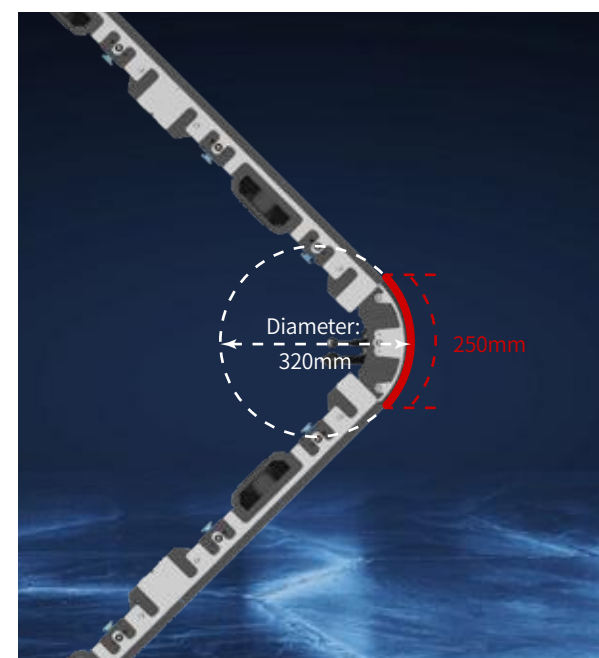
### ◆ 90° Small Arc Corner LED Display Solution

- Utilize harder modules to achieve smaller radius
- 90° small arc panels with 250mm arc length only



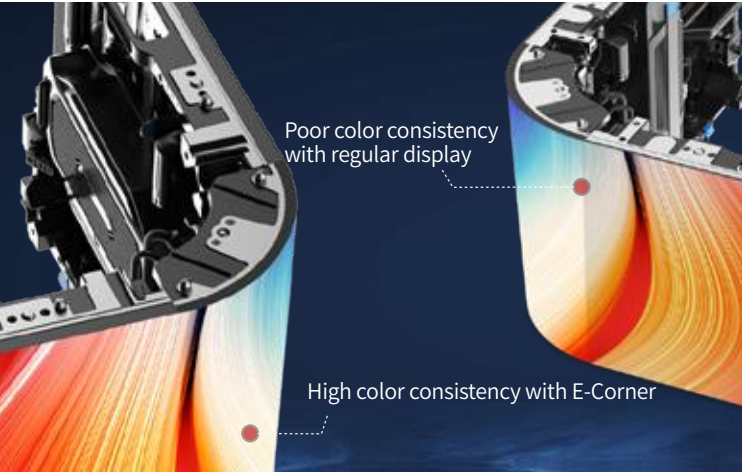
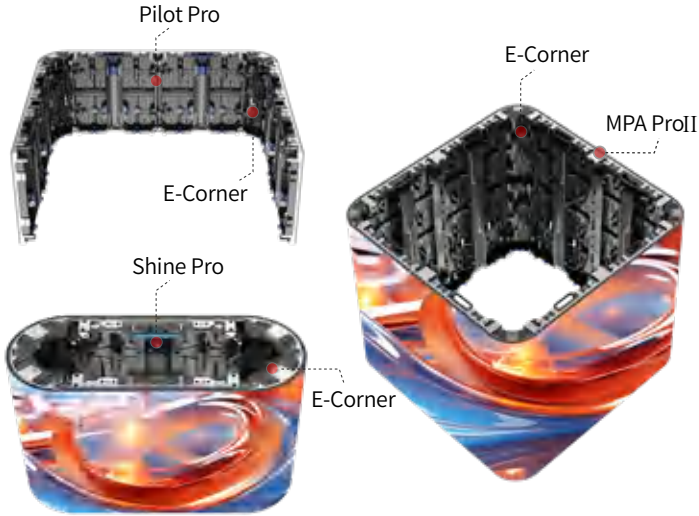
### ◆ Smooth & Tight Arc Aesthetics

- Reduce the splicing radius to optimize space utilization



Mixed Splicing

- Support splicing with MPA Pro II for more shapes



High Color Consistency

- The ink color at the mixed splicing maintains ultra-high consistency to present flawless digital delivery

Easy Maintenance

- Front maintenance for modules
- Power supply and receiving cards support rear maintenance



| Model                            | EC3.9T                  | EC4.8T |
|----------------------------------|-------------------------|--------|
| Pixel Pitch (mm)                 | 3.9                     | 4.8    |
| Pixel Density (Pixels/m²)        | 65536                   | 43264  |
| LED Type                         | SMD                     |        |
| Module Size W×H( mm)             | 250*125                 |        |
| Module Resolution W×H(dot)       | 64*32                   | 52*26  |
| Panel Size W×H×D( mm)            | 250*500*82              |        |
| Panel Resolution W×H(dot)        | 64*128                  | 52*104 |
| Panel Material                   | Die-Casting Aluminum    |        |
| Panel Weight (Kg/pc)             | 4                       |        |
| Voltage (V)                      | AC 110-220              |        |
| Brightness (cd/m²)               | 4500                    |        |
| Viewing Angle (H/V)              | 160°/ 120°              |        |
| Gray Scale (bit)                 | 14                      |        |
| Refresh Rate (Hz)                | 3840                    |        |
| Contrast Ratio                   | 5000:1                  |        |
| Color Temperature (K)            | 2000~10000 (Adjustable) |        |
| Maximum Power Consumption (W/m²) | 650                     |        |
| Average Power Consumption (W/m²) | 163                     |        |
| Maintenance                      | Rear                    |        |
| IP Rating                        | IP65                    |        |
| LED Lifetime (Hours)             | 100000                  |        |
| Certificates                     | CB/EMC/LVD/ETL/FCC      |        |

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# HerculesII Series

Upgraded High-Brightness Outdoor LED Display



## ◆ 9000nits Long-Lasting High Brightness

- Up to 9000nits high brightness brings clear images under strong sunlight; Ultra-low attenuation ensures sharp & vibrant images even after year-by-year running, generating great implicit commercial value for your investment.



## ◆ 40% Energy Saving

- By applying a dual-channel voltage input to reduce power consumption to improve conversion efficiency, HerculesII Series enables lower energy consumption by 40% compared to regular LED displays.



## ◆ Exceptional Picture Quality

- Patented long-shader mask design brings an unrivaled high contrast ratio; Up to 7680Hz high refresh rate along with ultra-wide views elevates watching comfort through eye-catching broadcasting.

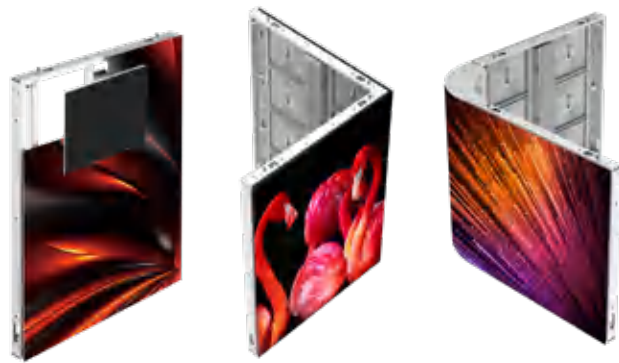


HerculesII Series

Upgraded High-Brightness Outdoor LED Display

◆ Thinner, Lighter & More Cost-Saving

- Ultra-slim (78mm) & light cabinets reduce mounting structure and save the cost of transportation and installation. Meanwhile, die-casting aluminum module back cover supports anti-deformation.



Support front & rear maintenance  
Left and right modules can be used in common

90° splicing

Curved splicing for naked-eye 3D display  
(HerculesII 10)

◆ Install & Maintain with Higher Flexibility

- HerculesII Series supports both front & rear installation and maintenance with universal modules and allows unique L-shaped and curved splicing in creative display like naked-eye 3D solutions for more flexible application.

◆ All-Weather Stability

- IP66 high waterproof protection from the front and back and a 5VB-flame-retardant aluminum cabinet with good heat dissipation results in more secure and steady performance all the time.



HerculesII Series

Upgraded High-Brightness Outdoor LED Display

| Model                            | HerculesⅡ6.67                 | HerculesⅡ8      | HerculesⅡ10  |
|----------------------------------|-------------------------------|-----------------|--------------|
| Pixel Pitch (mm)                 | 6.67                          | 8               | 10           |
| Pixel Density (Pixels/m²)        | 22500                         | 15625           | 10000        |
| LED Type                         | SMD                           |                 |              |
| Module Size W×H( mm)             | 480*320                       |                 |              |
| Module Resolution W×H( mm)       | 72*48                         | 60*40           | 48*32        |
| Panel Size W×H×D( mm)            | 960*1280*78/960*960*78        |                 |              |
| Panel Resolution W×H             | 144*192 / 144*144             | 120*160/120*120 | 96*128/96*96 |
| Panel Material                   | Aluminum                      |                 |              |
| Weight (Kg/m²)                   | 28                            |                 |              |
| Voltage (V)                      | AC 110~220                    |                 |              |
| Brightness (nits)                | 7000                          | 9000            |              |
| Brightness Adjustment            | Programmable/Automatic/Manual |                 |              |
| Viewing Angle (H/V)              | 160° / 120°                   |                 |              |
| Gray Scale (bit)                 | 16                            |                 |              |
| Refresh Rate (Hz)                | 7680                          |                 |              |
| Frame Rate (Hz)                  | 50/60                         |                 |              |
| Contrast Ratio                   | 7000:1                        | 8000:1          | 12000:1      |
| Color Temperature (K)            | 2000~10000 (Adjustable)       |                 |              |
| Maximum Power Consumption (W/m²) | 720                           | 800             | 800          |
| Average Power Consumption (W/m²) | 180                           | 200             | 200          |
| Maintenance                      | Front/Rear                    |                 |              |
| IP Rating                        | IP66                          |                 |              |
| LED Lifetime (Hours)             | 100000                        |                 |              |

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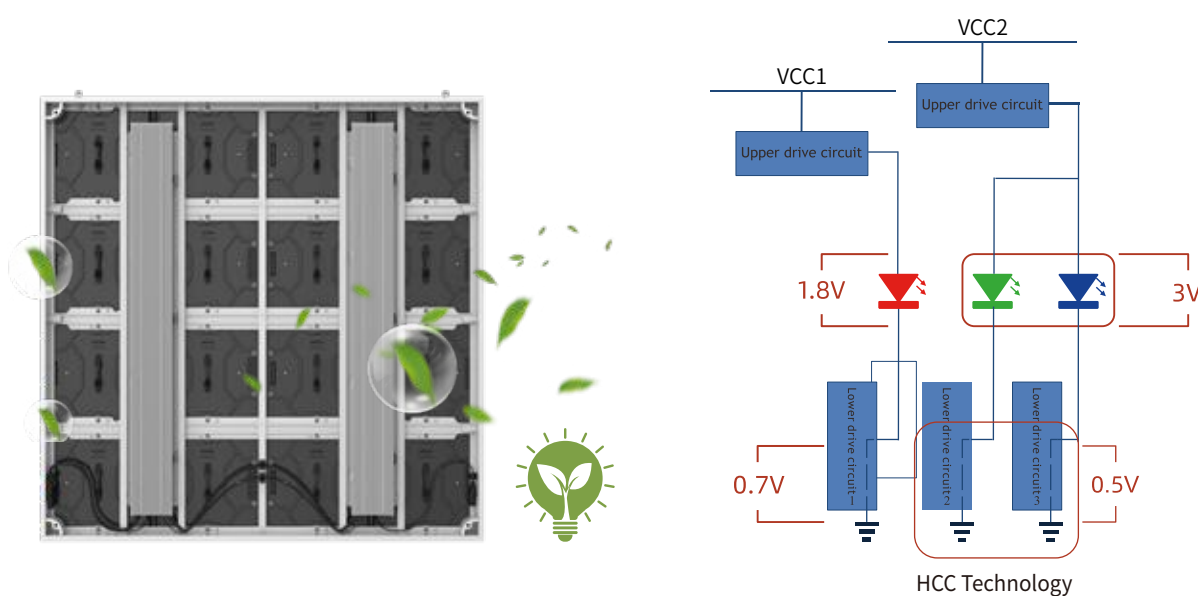
# Hercules Series

Ultra-High Brightness Outdoor Fixed LED Display



## ◆ High Energy Efficiency

- With dual-channel voltage input, High-powered Common Cathode (HCC) Technology reduces power consumption by 15% and improves power-saving capability.



# Hercules Series

Ultra-High Brightness Outdoor Fixed LED Display

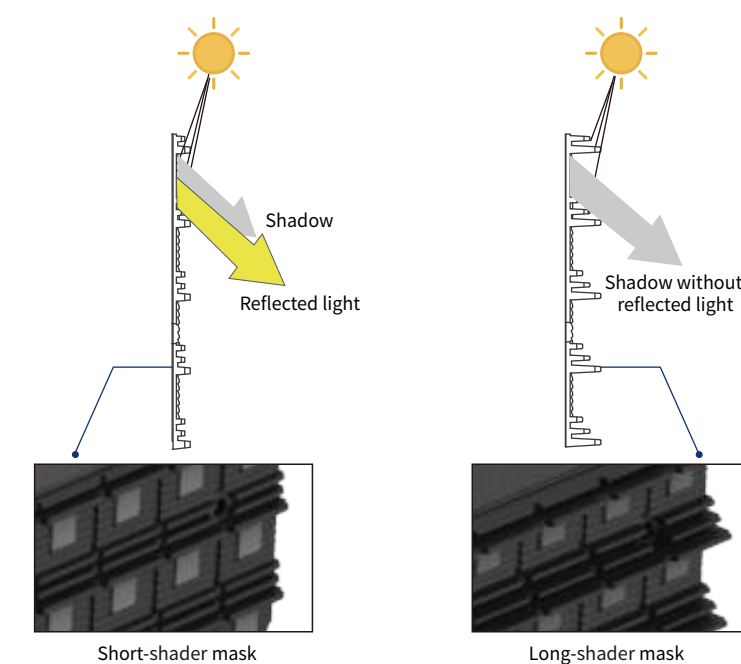
## ◆ Unrivalled Brightness

- Up to 10000nits brightness ensures the screen is visible and crisp in direct sunlight to provide an excellent outdoor display.



## ◆ Ultimate Visuals

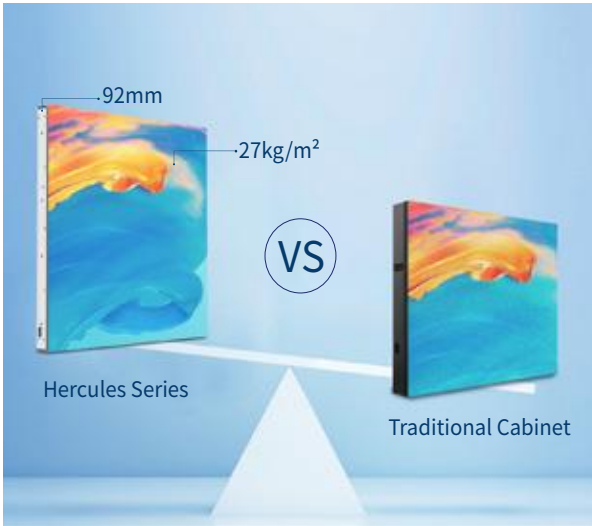
- Patented long-shader mask design and the underlying technologies grant Hercules Series unparalleled high contrast ratio and high refresh rate, delivering smooth broadcasting with more color subtlety, shading, and saturated colors.





◆ Thin, Light & Efficient

- Compared with a conventional cumbersome outdoor billboard cabinet, Hercules Series lightweight body guarantees structure safety with less building load while reducing labor and transportation costs.



Front maintenance



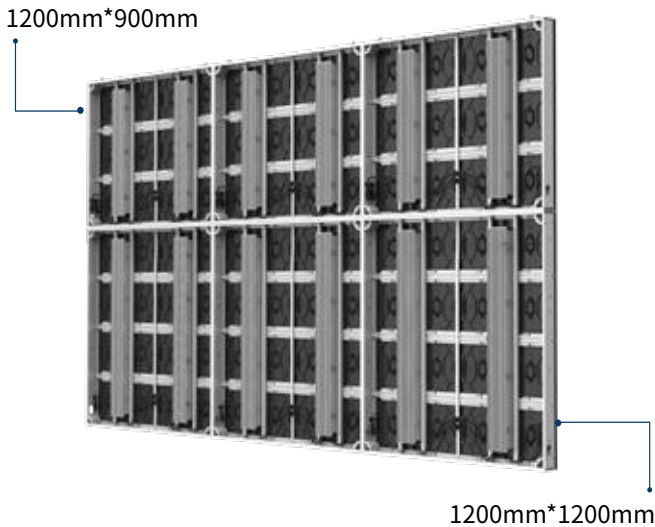
Rear maintenance

◆ Easy Maintenance

- All the components can be maintained from both front and rear easily to avoid inconvenient maintenance due to site limitations.

◆ Fit Your Space Just Right

- Multiple size options, cabinet mixed assembly, and direct wall-mounting installation are all available to meet your various specific spatial needs.



| Model                            | Hercules6.8                   | Hercules8.3     | Hercules10     |
|----------------------------------|-------------------------------|-----------------|----------------|
| Pixel Pitch (mm)                 | 6.8                           | 8.3             | 10             |
| Pixel Density (Pixels/m²)        | 21512                         | 14400           | 10000          |
| LED Type                         | SMD                           |                 |                |
| Module Size W×H( mm)             | 300*300                       |                 |                |
| Module Resolution W×H( mm)       | 44*44                         | 36*36           | 30*30          |
| Panel Size W×H×D( mm)            | 1200*1200*92/1200*900*92      |                 |                |
| Panel Resolution W×H             | 176*176/176*132               | 144*144/144*108 | 120*120/120*90 |
| Panel Material                   | Aluminum                      |                 |                |
| Weight (Kg/m²)                   | 27                            |                 |                |
| Voltage (V)                      | AC 100~240                    |                 |                |
| Brightness (nits)                | 7000                          | 10000           | 10000          |
| Brightness Adjustment            | Programmable/Automatic/Manual |                 |                |
| Viewing Angle (H/V)              | 160° / 100°                   |                 |                |
| Gray Scale (bit)                 | 14                            |                 |                |
| Refresh Rate (Hz)                | 3840                          |                 |                |
| Contrast Ratio                   | 7000:1                        |                 |                |
| Color Temperature (K)            | 2000~10000 (Adjustable)       |                 |                |
| Maximum Power Consumption (W/m²) | 720                           | 830             | 830            |
| Average Power Consumption (W/m²) | 180                           | 208             | 208            |
| Maintenance                      | Front/Rear                    |                 |                |
| IP Rating                        | IP66                          |                 |                |
| LED Lifetime (Hours)             | 100000                        |                 |                |

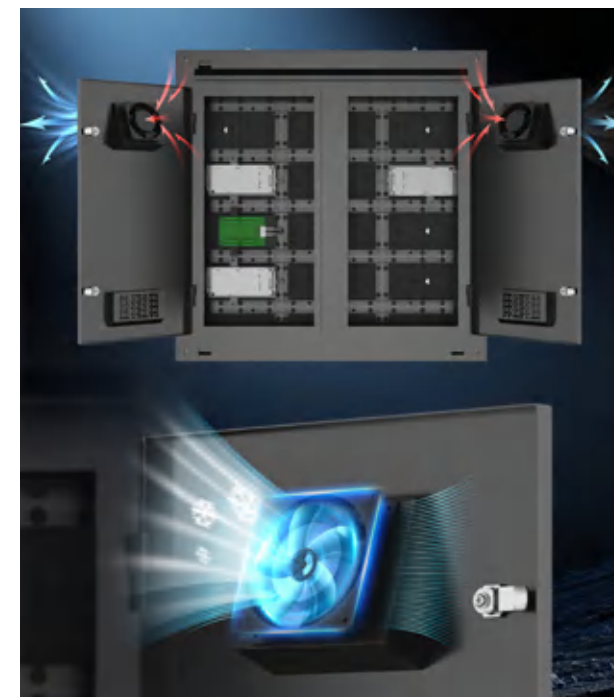
\*Above parameters are for reference only. For more details, please contact our sales team. All rights reserved to LianTronics.

# FS(320×160) Series

Highly Applicable Outdoor LED Display

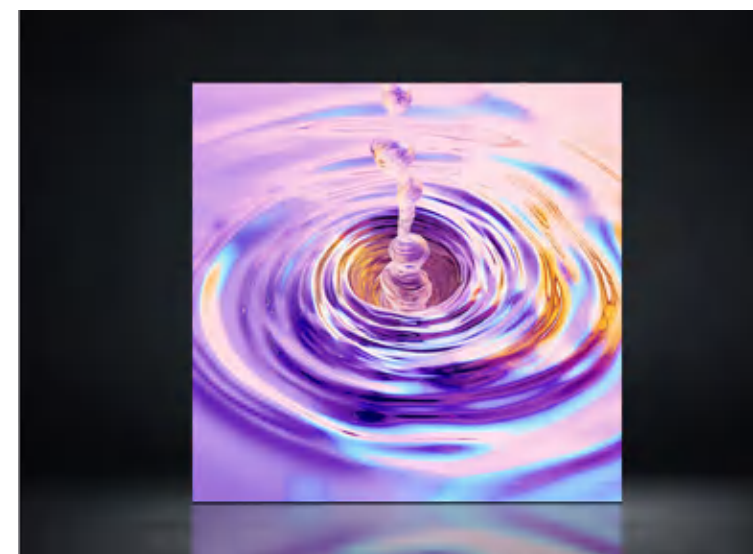
## ◆ Efficient Cooling System

- Active heat dissipation system reduces failure caused by overheating to ensure more stable use



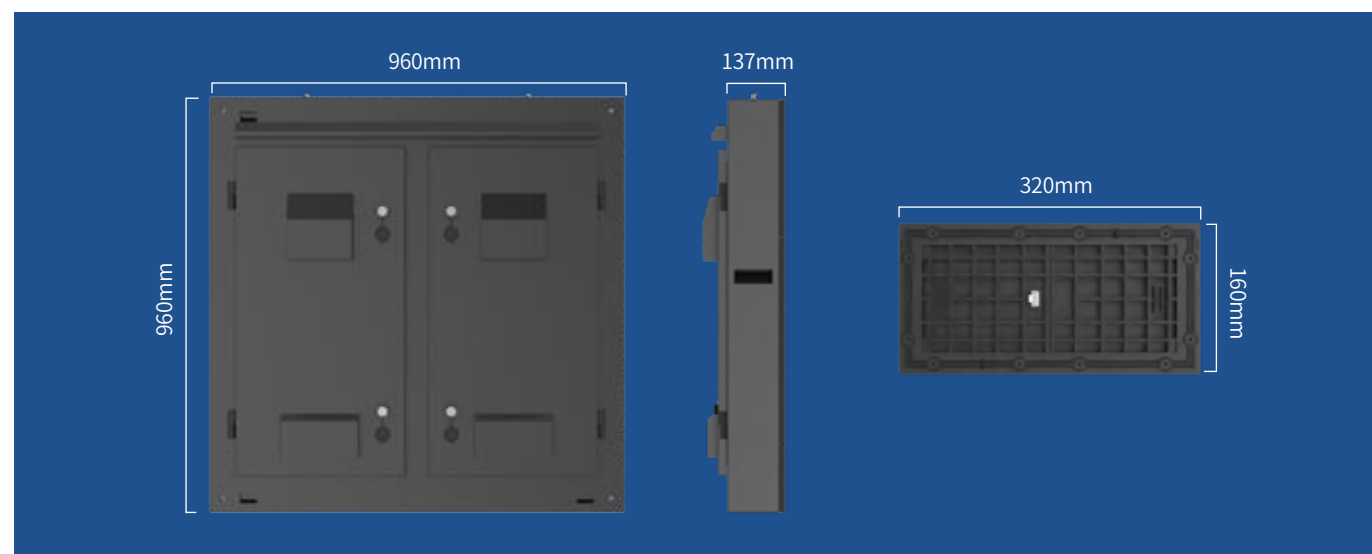
## ◆ Elaborate Design for Excellent Visual Effect

- Adopt special LEDs for higher contrast ratio
- Adopt low-power constant-current driver ICs for 3840Hz high refresh rate & high grayscale
- Unique dual-row transistor circuit design for ultra-high brightness consistency



## ◆ More Standardized, More Applicable

- Industry-standard 320mm\*160mm module size allows more application scenes
- Greatly reduces costs of LED wall renovation as the previous mounting structure can be reused



◆ Multiple Protections

- Front and rear waterproof structure design grants more reliable running in outdoors



◆ Flexible Customization, Unlimited Creativity

- 45° bevel modules and curved modules allow L-shape splicing and naked-eye 3D display
- Customizable panel sizes meet your needs of different creative projects

◆ 160° Ultra-wide Viewing Angle

- Ultra-wide viewable angle brings wider coverage to attract audience's attention



| Model                                         | FS3                           | FS4     | FS5     |
|-----------------------------------------------|-------------------------------|---------|---------|
| Pixel Pitch (mm)                              | 3.076                         | 4       | 5       |
| Pixel Density (pixel/m <sup>2</sup> )         | 105625                        | 62500   | 40000   |
| LED Type                                      | SMD                           |         |         |
| Panel Size W*H*D (mm)                         | 960*960*137                   |         |         |
| Panel Resolution W*H (dot)                    | 312*312                       | 240*240 | 192*192 |
| Module Size W*H (mm)                          | 320*160                       |         |         |
| Module Resolution W*H (dot)                   | 104*52                        | 80*40   | 64*32   |
| Panel Material                                | Iron                          |         |         |
| Panel Weight (Kg/m <sup>2</sup> )             | 40                            |         |         |
| Brightness (cd/m <sup>2</sup> )               | 4500                          | 5000    | 5000    |
| Brightness Adjustment                         | Programmable/Automatic/Manual |         |         |
| Viewing Angle (H/V)                           | 160°/140°                     |         |         |
| Refresh Rate (Hz)                             | 3840                          |         |         |
| Frame Rate (Hz)                               | 50 / 60                       |         |         |
| Color Temperature (K)                         | 2000~10000 (Adjustable)       |         |         |
| Voltage (V)                                   | AC 100-240                    |         |         |
| Average Power Consumption (W/m <sup>2</sup> ) | 188                           | 200     | 200     |
| Maximum Power Consumption (W/m <sup>2</sup> ) | 750                           | 800     | 800     |
| Serviceability                                | Rear                          |         |         |
| IP Rating                                     | Front IP65, Rear IP54         |         |         |
| Lifespan (Hours)                              | 100000                        |         |         |
| Certificates                                  | CCC                           |         |         |

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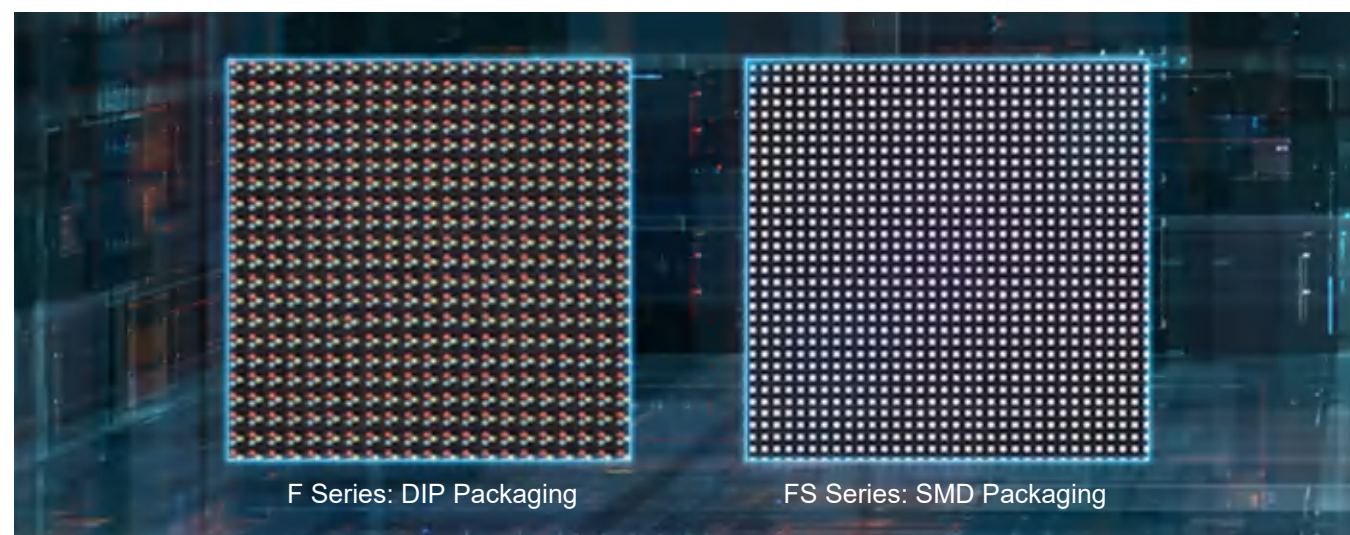
# F/FS Series

Outdoor LED Display for Naked-Eye 3D Creativity



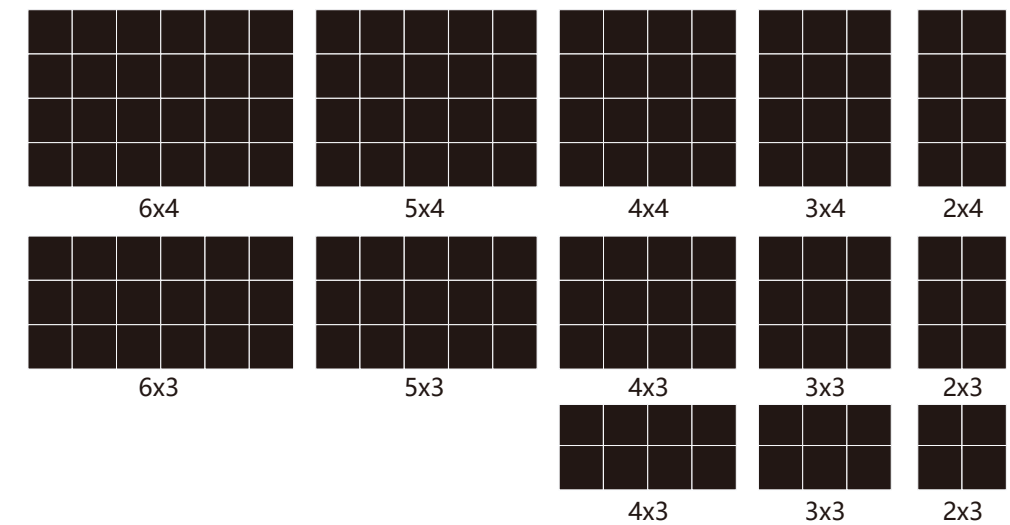
## ◆ Patented Mask, Multifaceted Reinforcement

- Patented sawtoothed masks processed in black crystal color effectively diffuse sunlight reflection and furthermore improve contrast ratio for sharper image presentation. Glass fiber is added to improve durability & resistance against deformation.



## ◆ Size Customization with Ease

- Thanks to the special structural design, F/FS Series can customize into any panel size corresponding to the size of random module array.



Customize any size corresponding to the module array

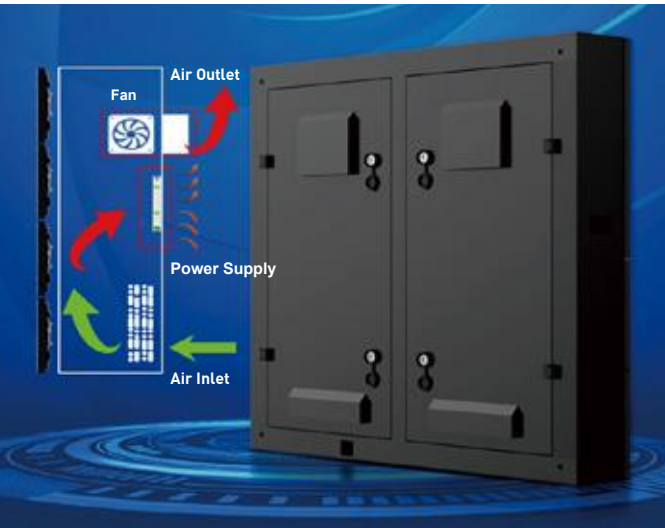
## ◆ Creative Naked-Eye 3D Splicing

- Patented Seamless Curved Surface Display Technology supports smooth 90-degree surfaces splicing to achieve compelling true-to-life presentations like glasses-free 3D creative displays.



Convenient Serviceability

- By supporting front & rear installation and maintenance, F/FS panels can be assembled into L-shaped, cylinder, concave and other shapes to perform well on different occasions.



Excellent Heat Dissipation

- Built-in cooling fans and attach-to-shell power supply for better thermal diffusion work together to improve operational stability and extend the lifespan of LED displays by avoiding the heat accumulation effect.

All-Weather Resistance

- IP65-waterproof cabinets with full sealing and module-level water resistance achieve long-lasting vivid broadcasting regardless of any harsh environment.



| Model                            | FS4                           | FS5         | FS6         | FS8           | FS10        |
|----------------------------------|-------------------------------|-------------|-------------|---------------|-------------|
| Pixel Pitch (mm)                 | 4                             | 5           | 6           | 8             | 10          |
| Pixel Density (Pixels/m²)        | 62500                         | 40000       | 27778       | 15625         | 10000       |
| LED Type                         | SMD                           |             |             |               |             |
| Module Size W×H( mm)             | 240*240                       | 240*240     | 240*240     | 256*256       | 240*240     |
| Module Resolution W×H( mm)       | 60*60                         | 48*48       | 40*40       | 32*32         | 24*24       |
| Panel Size W×H×D( mm)            | 960*960*153                   | 960*960*153 | 960*960*153 | 1024*1024*153 | 960*960*153 |
| Panel Resolution W×H             | 240*240                       | 192*192     | 160*160     | 128*128       | 96*96       |
| Panel Material                   | Iron                          |             |             |               |             |
| Weight (Kg/m²)                   | ≤37                           |             |             |               |             |
| Voltage (V)                      | AC 100~240V                   |             |             |               |             |
| Brightness (nits)                | 6000~8000 (Optional)          |             |             |               |             |
| Brightness Adjustment            | Programmable/Automatic/Manual |             |             |               |             |
| Viewing Angle (H/V)              | 160° / 120°                   |             |             |               |             |
| Gray Scale (bit)                 | 14 / 16                       |             |             |               |             |
| Refresh Rate (Hz)                | 3840                          |             |             |               |             |
| Contrast Ratio                   | 8000:1                        |             |             |               |             |
| Color Temperature (K)            | 2000~10000 (Adjustable)       |             |             |               |             |
| Maximum Power Consumption (W/m²) | 880                           |             |             |               |             |
| Average Power Consumption (W/m²) | 220                           |             |             |               |             |
| Maintenance                      | Rear                          | Front/Rear  | Front/Rear  | Front/Rear    | Rear        |
| IP Rating                        | Front: IP65 / Rear: IP54      |             |             |               |             |
| LED Lifetime (Hours)             | 100000                        |             |             |               |             |

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| Model                            | F10                           | F16   |
|----------------------------------|-------------------------------|-------|
| Pixel Pitch (mm)                 | 10                            | 16    |
| Pixel Density (Pixels/m²)        | 10000                         | 3906  |
| LED Type                         | DIP                           |       |
| Module Size W×H( mm)             | 240*240                       |       |
| Module Resolution W×H( mm)       | 24*24                         | 15*15 |
| Panel Size W×H×D( mm)            | 960*960*153                   |       |
| Panel Resolution W×H             | 96*96                         | 60*60 |
| Panel Material                   | Iron                          |       |
| Weight (Kg/m²)                   | ≤37                           |       |
| Voltage (V)                      | AC 100~240V                   |       |
| Brightness (nits)                | 7000                          | 8000  |
| Brightness Adjustment            | Programmable/Automatic/Manual |       |
| Viewing Angle (H/V)              | 120° / 60°                    |       |
| Gray Scale (bit)                 | 14/16                         |       |
| Refresh Rate (Hz)                | 1920/3840                     |       |
| Contrast Ratio                   | 3000:1                        |       |
| Color Temperature (K)            | 2000~10000 (Adjustable)       |       |
| Maximum Power Consumption (W/m²) | 360                           | 420   |
| Average Power Consumption (W/m²) | 90                            | 105   |
| Maintenance                      | Rear                          |       |
| IP Rating                        | Front IP65/Rear IP54          |       |
| LED Lifetime (Hours)             | 100000                        |       |

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Lincoln Center, USA

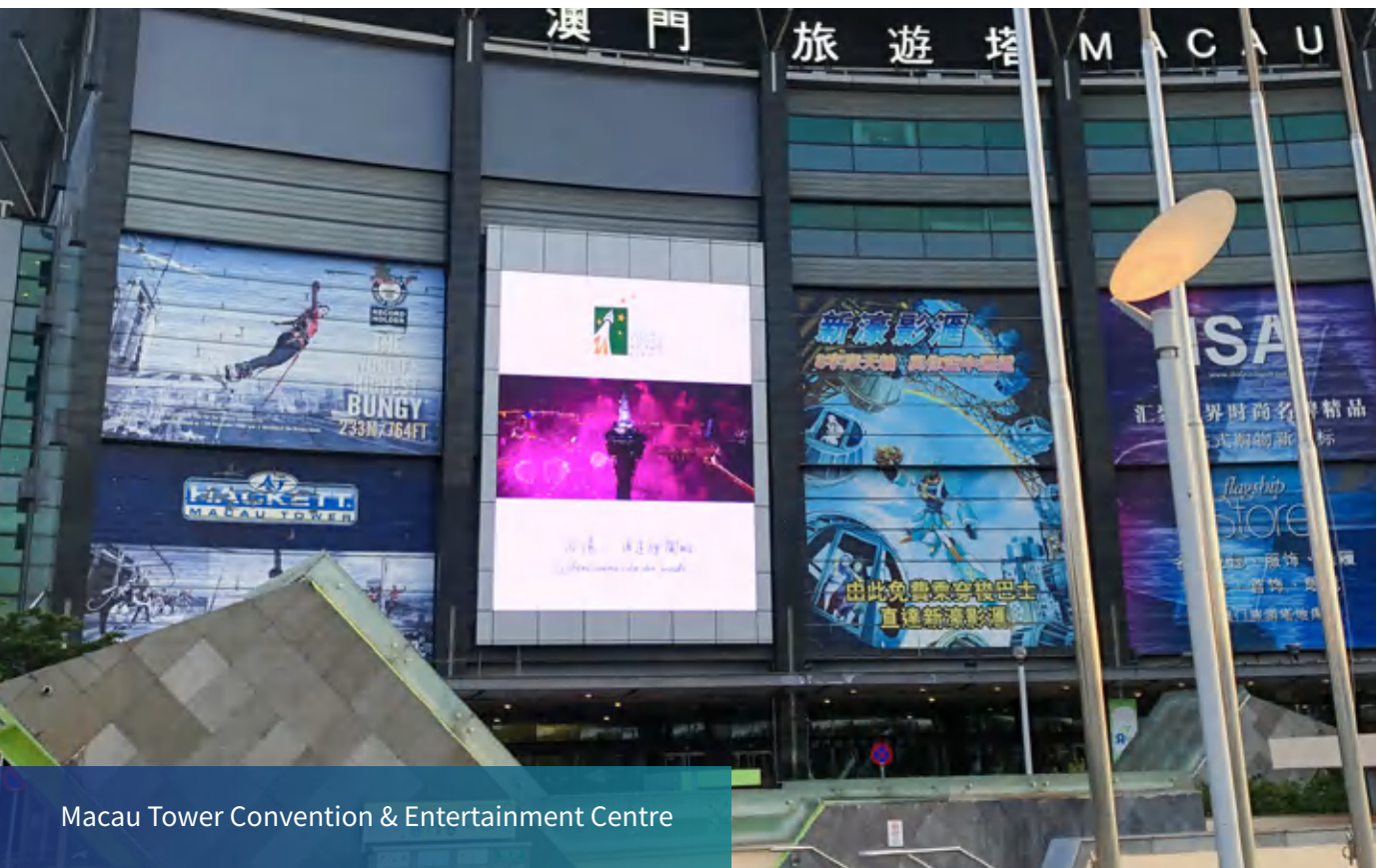


Gun Lake Casino, USA





Meixihu Cultural Art Center



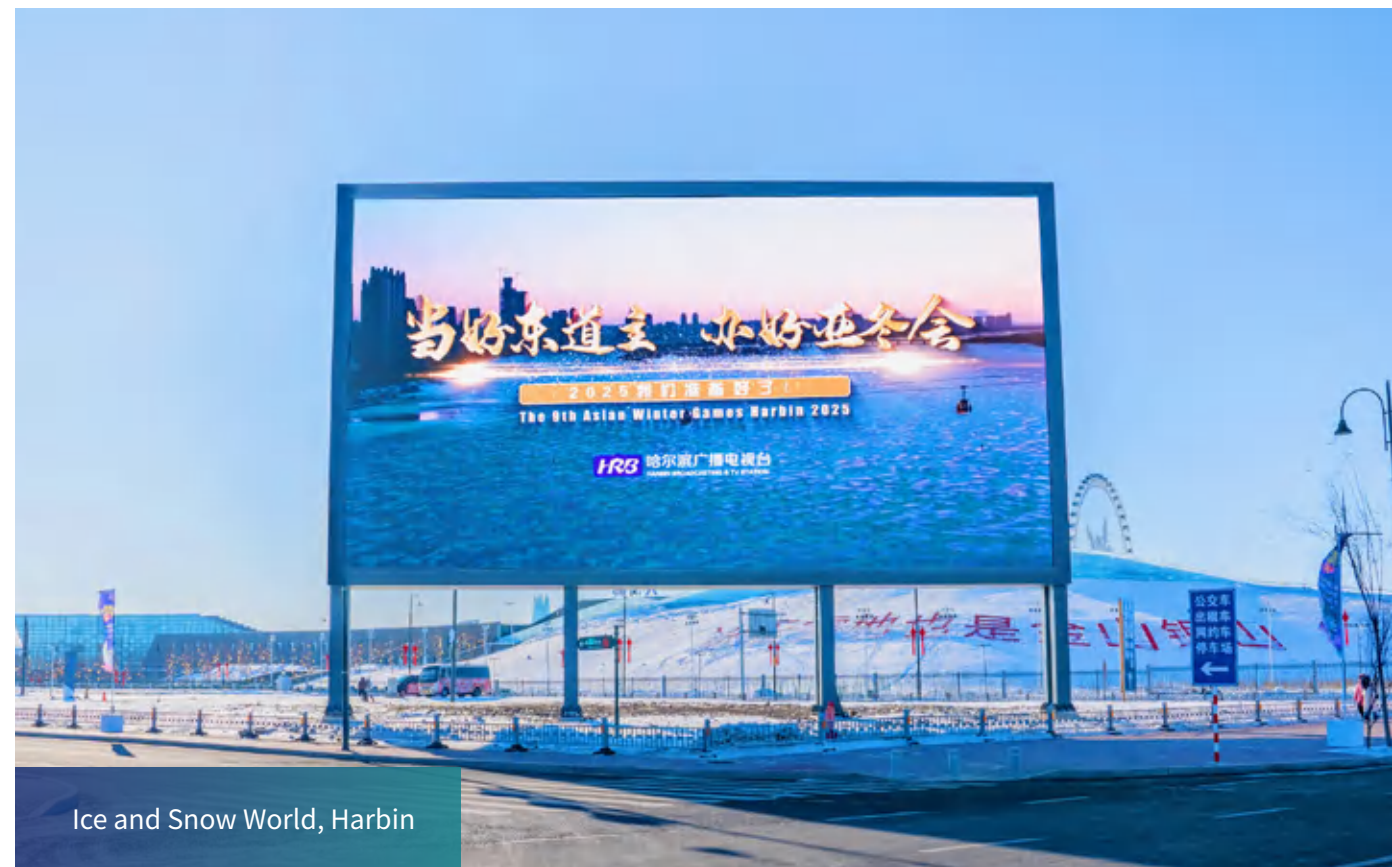
Macau Tower Convention & Entertainment Centre



Museum of Art Pudong, Shanghai



Hong Kong-Zhuhai-Macao Bridge



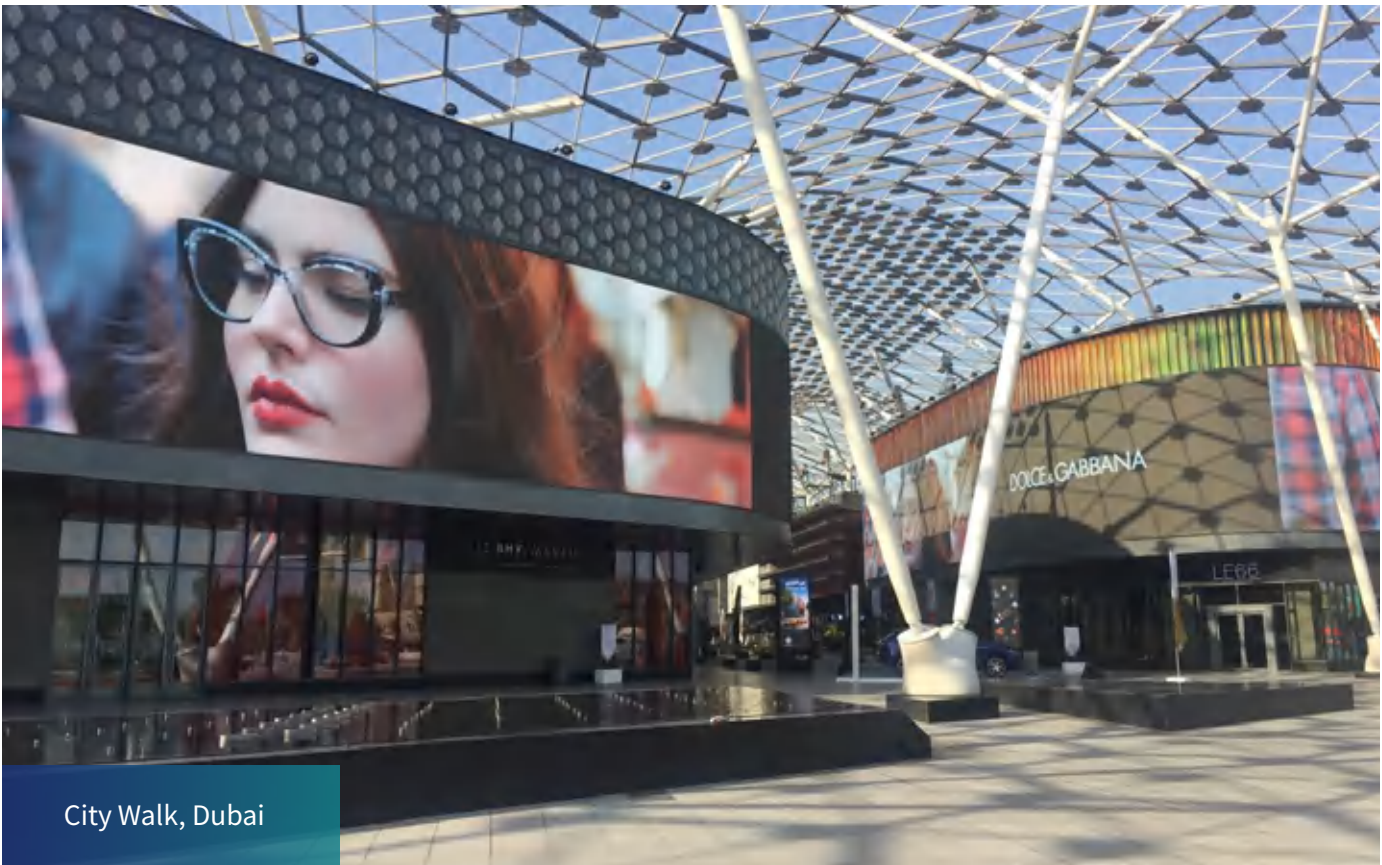
Ice and Snow World, Harbin



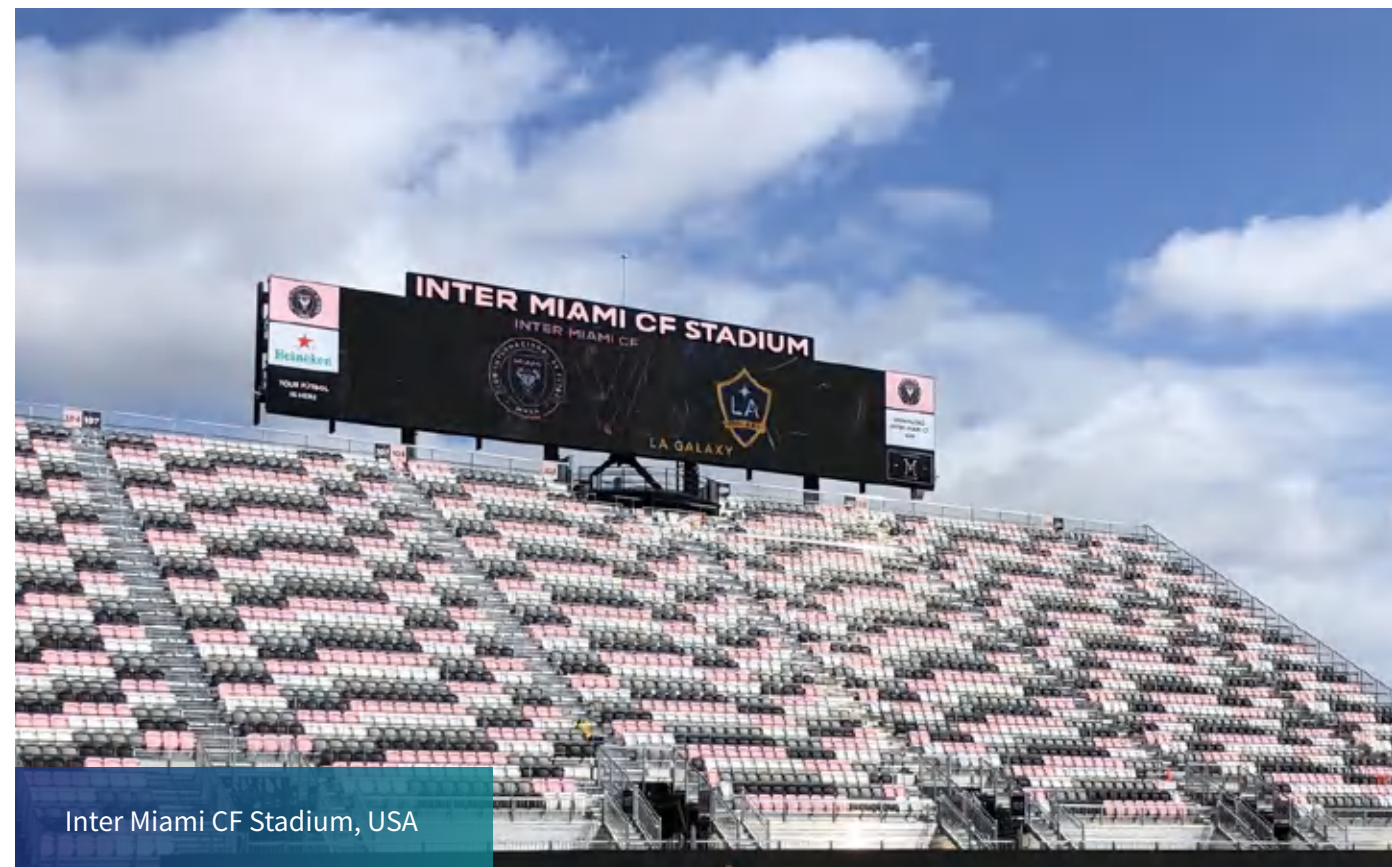
New Giza, Egypt



Holmenkollen Ski Jumping Arenas, Norway



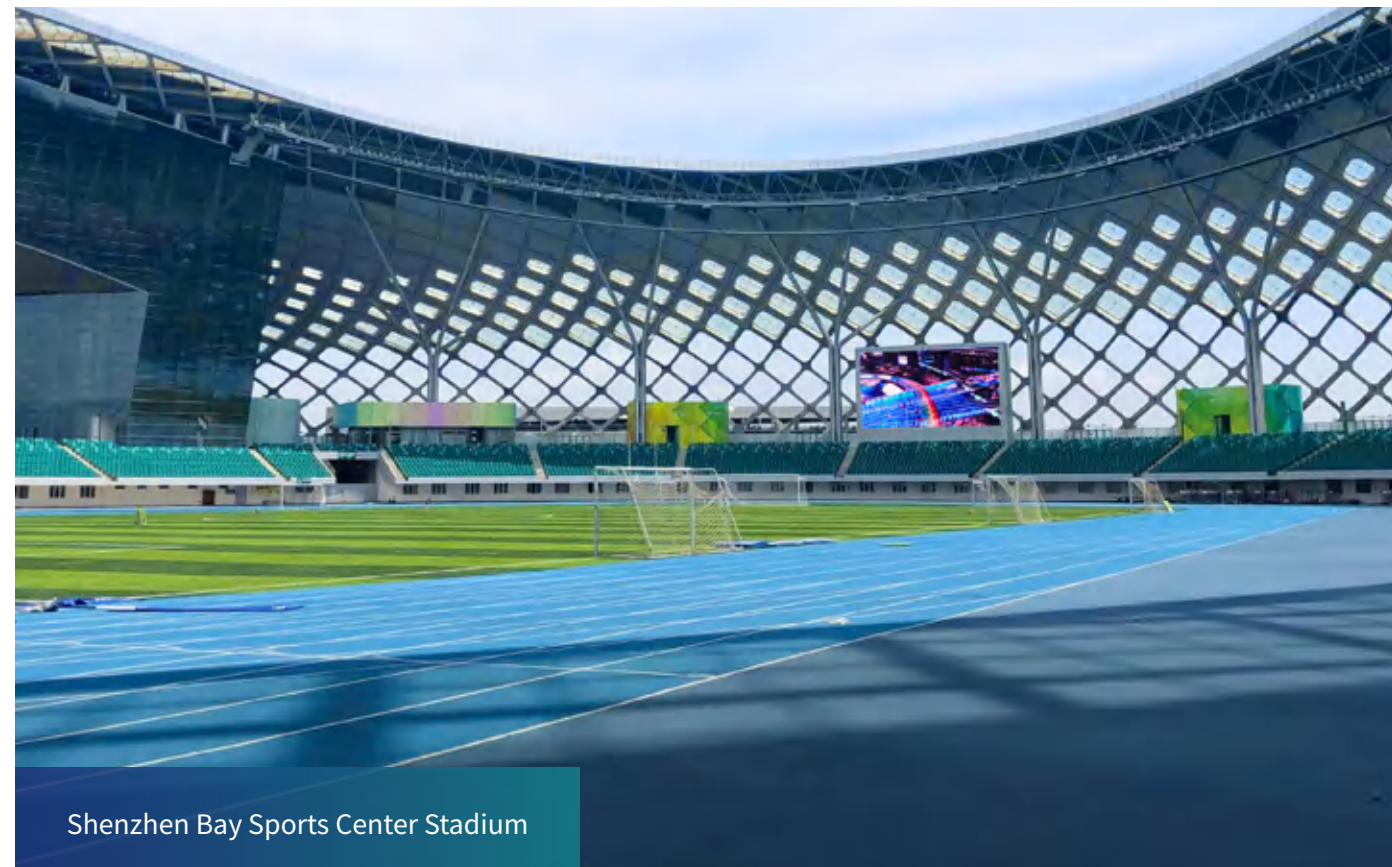
City Walk, Dubai



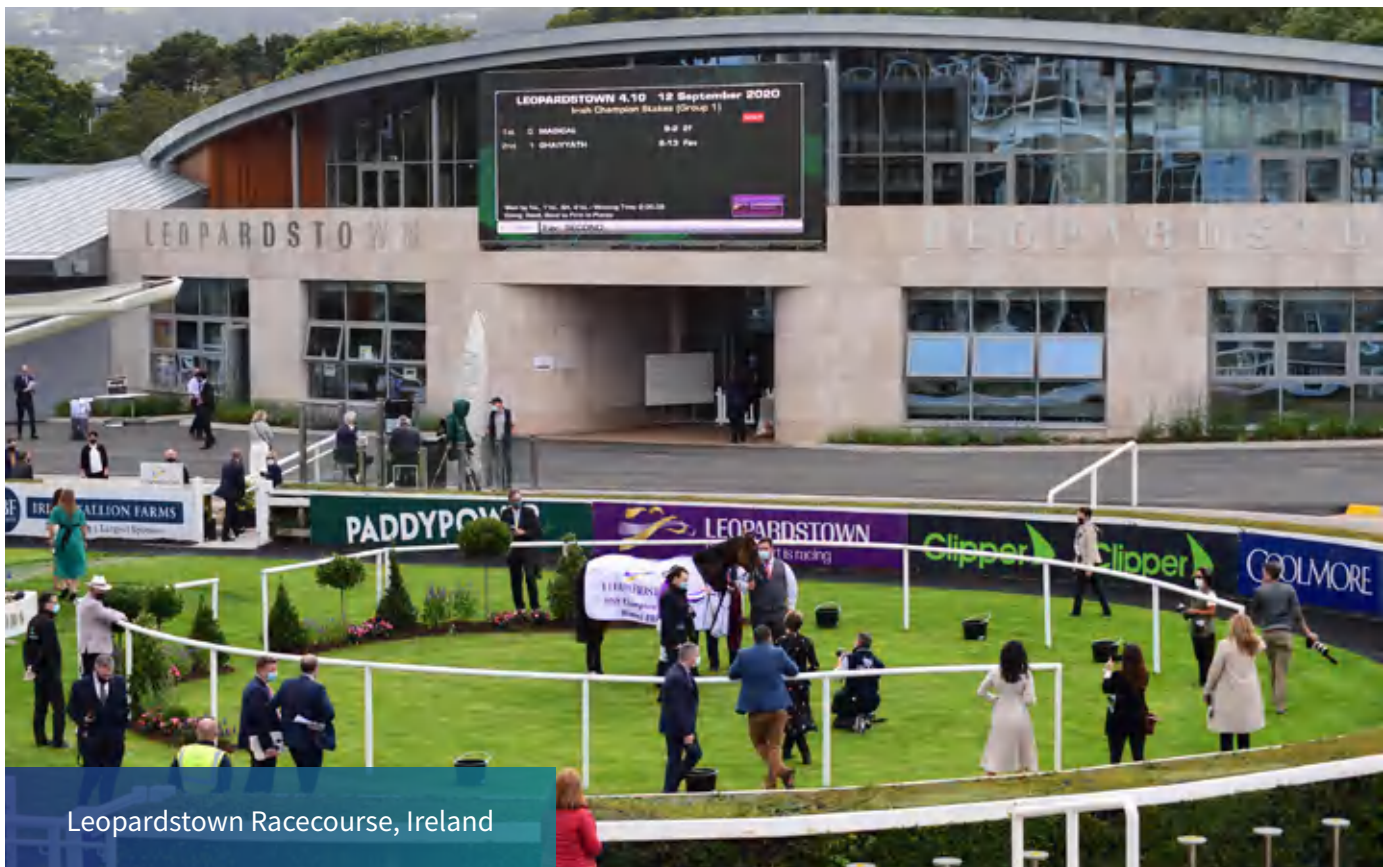
Inter Miami CF Stadium, USA



England Cricket Board, UK



Shenzhen Bay Sports Center Stadium



Leopardstown Racecourse, Ireland



Nanning Greenland Central Plaza, Guangxi



Wanda Plaza, Chongqing



Guangming Town, Yixing



Grandview Mall, Guang Zhou



Sino-Ocean Taikoo Li, Chengdu



Tianhai International Plaza, Lhasa



Exhibition World Bahrain



Eternal City, Guiyang