

SPECKTRON

Professional LED
Display Manufacturer

www.specktron.com

SPECKTRON

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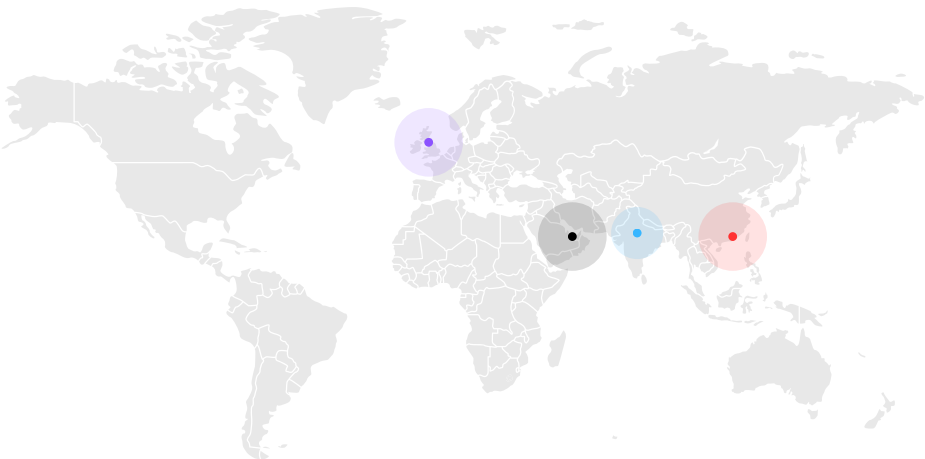
COMPANY INTRODUCTION

Specktron, a leading technology brand and manufacturer founded in 2012 in the United Arab Emirates, specializes in interactive displays, digital signage, and classroom solutions, serving over 60 countries while prioritizing cutting-edge technology and research and development for its global partners.



REGISTERED OFFICES

- **Specktron Middle East**
UAE (HQ)
- **Specktron HK**
Hong Kong
- **Specktron Europe**
UK
- **Specktron India**
India

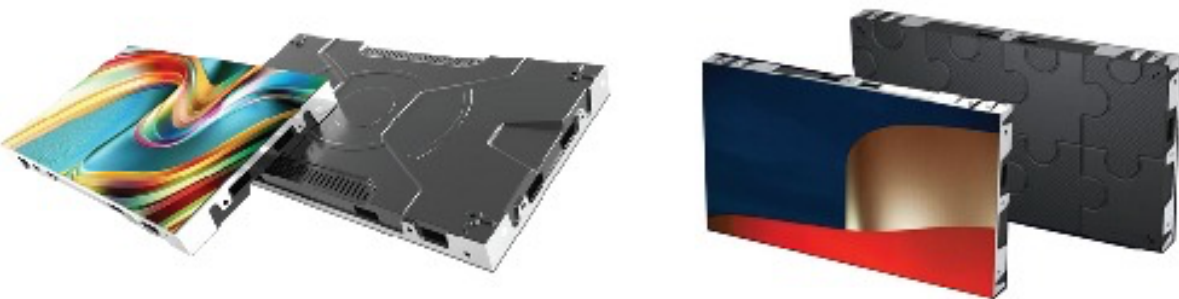


WAREHOUSES

- | | |
|---|---|
|  Middle East:
UAE, Jebel Ali |  Asia:
China, Shenzhen |
|  Europe:
Netherland, Rotterdam |  Asia:
India |



FP Series Fine Pitch LED display



FEATURE

- Ultra-fine pixel pitches – 0.9, 1.2, 1.5, 1.8mm – for crystal-clear detail at close viewing distances.
- Native 16:9 cabinets align perfectly to Full HD, 4K, and 8K canvases.
- Thin, compact cabinet with concealed cabling for a clean, premium architectural finish.
- Front or rear installation/service for flexible integration in tight spaces.
- True-black LED technology delivers high contrast and rich color depth.
- Lightweight, precision die-cast construction enables seamless, bezel-free video walls.
- Optional dual power supply for redundancy and uninterrupted 24/7 operation.

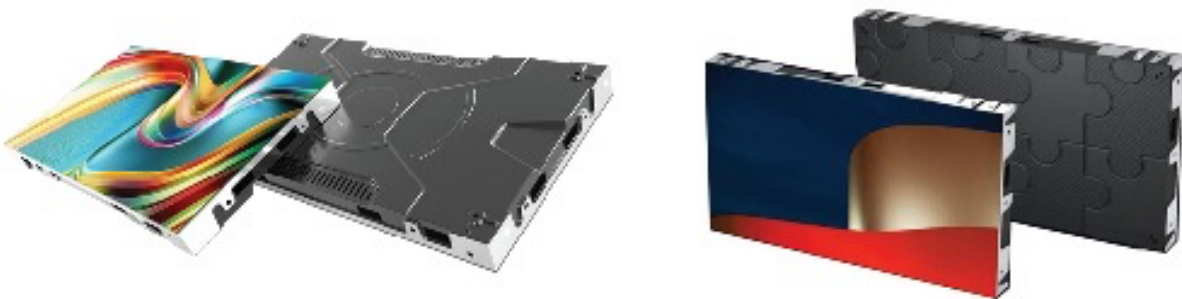
APPLICATION AREAS



PRODUCT PARAMETERS

Description	P0.9	P1.2	P1.5	P1.8
Pixel Pitch (mm)	0.9375	1.25	1.5625	1.875
LEDs	IMD-M09	SMD1010	SMD1212	SMD1515
Pixel Density (dots/m ²)	1,137,777	640,000	409,600	284,444
Module Size (mm)	300 x 168.75			
Module Pixel (dots)	320 x 180	240 x 135	192 x 108	160 x 90
Cabinet Size (mm)	600 x 337.5			
Cabinet Resolution (dot)	640 x 360	480 x 270	384 x 216	320 x 180
Cabinet Weight (Kg)	6			
Cabinet Material	Aluminum die casting			
Service Method	Front			
Brightness (cd/m ²)	≥600	≥600	≥600	≥800
Horizontal/Vertical Viewing Angle (°)	H160/V160			
Grey Scale (bit)	14			
Refresh Rate (Hz)	≥3840			
Frame Rate (Hz)	≥60			
Scan Type	1/60		1/54	1.45
Avg Power Consumption (W/m ²)	220			
Max Power Consumption (W/m ²)	560			
Operating Temperature	-30°C ~ +60°C			
Humidity	10%-90%			
Protection Grade	IP31			
Color Temperature	6500K ±500			
Input Voltage	AC 100-240V			
Lifespan (h)	>100000			
Installation	Stacking			

AC Series — Ultra-Fine Pixel COB (Chip On Board) LED Display



FEATURE

- COB advantage: a protected, robust LED surface that improves durability and uniformity in high-traffic indoor spaces.
- Ultra-fine pixel options: P0.78 / P0.9 / P1.2 / P1.5 for stunning close-range clarity.
- High pixel density (up to 1,638,400 dots/m² at P0.78) delivers print-like detail on large canvases.
- Native 16:9 system — 600 × 337.5 mm cabinets stack perfectly for Full HD/4K/8K video walls.
- Front-service design with compact 150 × 168.75 mm modules simplifies maintenance in tight spaces.
- Lightweight, precision aluminum die-cast cabinets (≈ 6 kg each) ensure accurate alignment and faster installs.
- Calibrated brightness ~600 nits provide comfortable viewing for control rooms, boardrooms, studios, and lobbies.
- Consistent architecture across pitches streamlines design, scaling, and spares for multi-room deployments.

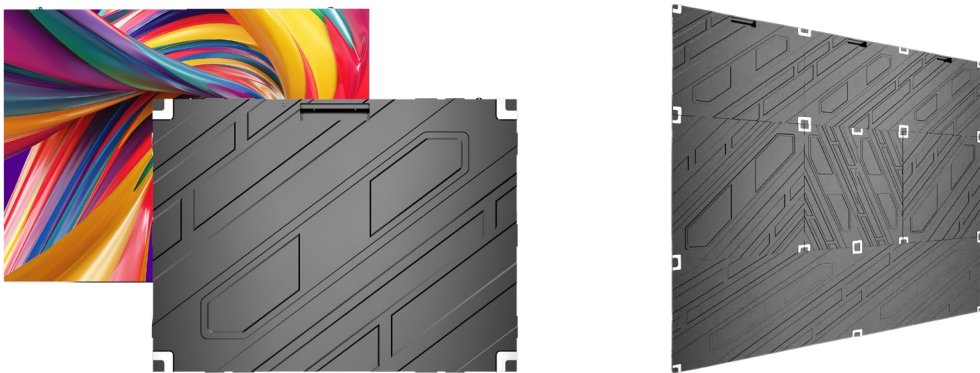
APPLICATION AREAS



PRODUCT PARAMETERS

Description	P0.78	P0.9	P1.2	P1.5
Pixel Pitch	0.78125mm	0.9375mm	1.25mm	1.5625mm
LED	COB			
Pixel Density (dots/m ²)	1,638,400	1,137,777	640,000	409,600
Module Size	150 x 168.75mm			
Module Pixel (dots)	192 x 213	160 x 180	120 x 135	96 x 108
Cabinet Size	600x337.5mm			
Cabinet Resolution	768 x 432	640 x 360	480 x 270	384 x 216
Cabinet Weight (Kg)	6kg			
Cabinet Material	Aluminum Die Casting			
Service Method	Front			
Brightness (calibrating value)	600 nits			
Viewing Angle	Horizontal axis 160° Vertical axis 160°			
Grey Scale	14Bit			
Refresh Rate	≥3840 Hz			
Frame Rate	≥ 60 Hz			
Scan Type	1/54 scanning	1/64 scanning	1/60 scanning	1/54 scanning
Avg Power Consumption (W/m ²)	220			
Max Power Consumption (W/m ²)	560			
Operating Temperature	—30℃ ~+60 ℃			
Humidity	10%~90%			
Protection Grade	IP54 Front			
Color Temperature	6500k+/-500			
Input Voltage	AC100-240V/50-60Hz			
Lifespan	>100000 hours			
Installation	Stacking			

AF series Indoor fixed LED display



FEATURE

- High-resolution LED walls tailored for meeting rooms, auditoriums, multi-purpose halls, training facilities, retail and F&B outlets.
- Pixel pitch options: 1.2 / 1.5 / 1.8 / 2.0 / 2.5 / 3.0 mm – match clarity to viewing distance and budget.
- Slim 60 mm profile and precision die-cast cabinets deliver seamless, gapless visuals on any wall.
- Multiple cabinet sizes provide flexible screen design and efficient space planning.
- Front-access service design (magnetic modules) enables rapid maintenance with minimal downtime.
- Optional GOB protection for applications that require added screen durability.
- Engineered for 24/7 operation, ensuring stable performance and long lifecycle in professional environments.

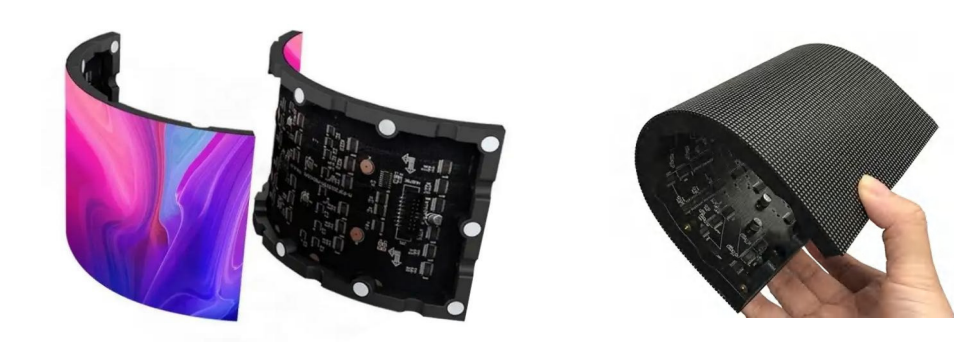
APPLICATION AREAS



PRODUCT PARAMETERS

Description	P1.2	P1.5	P1.8	P2	P2.5	P3
Pixel Pitch (mm)	1.25	1.538	1.86	2	2.5	3.07
LEDs	SMD1010	SMD1212	SMD1515	SMD1515	SMD2020	SMD2020
Pixel Density (dots/m ²)	640,000	422,500	288,900	250,000	160,000	105,625
Module size (mm)	320 x 160	320 x 160	320 x 160	320 x 160	320 x 160	320 x 160
Cabinet size (mm)	960 x 480 / 640 x 480 / 640 x 640 / 320 x 480 / 320 x 640					
Cabinet Weight (Kg)	12 / 7 / 10 / 4 / 5					
Cabinet Material	Aluminum die casting					
Service method	Front					
Brightness (cd/m ²)	≥600	≥600	≥800	≥800	≥1000	≥1000
Horizontal/Vertical Viewing Angle (°)	H160/V160					
Grey Scale (bit)	14					
Refresh Rate (Hz)	≥3840					
Scan Type	1/64	1/52	1/43	1/40	1/32	1/26
Frame Rate (Hz)	≥60					
Avg Power Consumption (W/m ²)	210	210	210	200	200	200
Max Power Consumption (W/m ²)	600	600	600	560	560	560
Operating Temperature	-30°C ~ +60°C					
Humidity	10%~90%					
Protection Grade	IP31					
Color Temperature	6500K ±500					
Input Voltage	AC 110 / 220V / 50 / 60HZ					
Lifespan (h)	>100000					
Life time	≥100,000h					
Installation	Hanging/Stacking					

Flexible Series Indoor Fixed LED display



FEATURE

- Flexible LED modules create smooth concave, convex, and creative surfaces without visual breaks.
- Module thickness: 5.25 mm with magnetic mounting for clean integration and fast servicing.
- Pixel pitches: 1.2 / 1.5 / 1.8 / 2.0 / 2.5 / 3.0 mm – match detail to viewing distance and design.
- Smooth visuals on curved surfaces for a superior, immersive viewing experience.
- Durable silicone mask and flexible PCB for reliability, safety, and long service life.
- Applications (surface types): curved walls, cylindrical pillars, and artistic geometries.
- Applications (venues): retail, museums, art galleries, themed attractions, showrooms.

APPLICATION AREAS



PRODUCT PARAMETERS

Description	P1.2	P1.5	P1.8	P2	P2.5	P3
Pixel Pitch (mm)	1.25	1.568	1.86	2	2.5	3.07
LEDs	SMD1010	SMD1212	SMD1515	SMD1515	SMD1515	SMD1515
Pixel Density (dots/m2)	640,000	422,500	288,900	250,000	160,000	105,625
Module Size (mm)	320 x 160					
Service method	Front					
Brightness (cd/m2)	≥600	≥600	≥600	≥800	≥800	≥800
Horizontal/Vertical Viewing Angle (°)	H160/V160					
Grey Scale (bit)	14					
Refresh Rate (Hz)	≥3840					
Frame Rate (Hz)	≥60					
Avg Power consumption (W/m2)	220					
Max Power consumption (W/m2)	560					
Operating Temperature	-30°C ~ +60°C					
Humidity	10%-90%					
Color Temperature	6500k ±500					
Input Voltage	AC110 / 220V / 50 / 60Hz					
Lifespan	>100000 h					

FPO series Outdoor fixed LED display



FEATURE

- Aluminum modular system assembles into large custom canvases without bulky housings.
- Self-cooling architecture reduces thermal load and eliminates large enclosures, streamlining structure and cost.
- Corrosion-resistant, slim, and lightweight for lower structural requirements on big installations.
- Module formats: 240×270 mm (for P1.2 / P1.5) and 480×540 mm (for P1.9 / P2.85) for versatile sizing.
- Brightness options: ≈3500 (1.25 / 1.5), 4500 (1.9), 6000 (2.85) nits for strong daylight legibility.
- Pixel pitch options: P1.2 / P1.5 / P1.9 / P2.85 for fine-detail outdoor visuals.
- Applications: building façades, rooftop screens, totems, unipoles, landmark media façades, corporate exteriors.

APPLICATION AREAS



PRODUCT PARAMETERS

Description	P1.2	P1.5	P1.9	P2.85
Pixel Pitch (mm)	1.25	1.5	P 1.9	P 2.85
LEDs	MIP0606	MIP1010	SMD1515	SMD2020
Pixel Density (dots/m²)	41472	28800	71568	31752
Module Size (mm)	240 x 270	240 x 270	480 x 540	480 x 540
Module Resolution	192 x 216	160 x 180	252 x 284	168 x 189
Module Weight (Kg)	2.6kg		6kg	
Module Material	Aluminum Profile			
Service Method	Front / Rear			
Brightness (cd/m²)	3500		4500	6000
Horizontal/Vertical Viewing Angle (°)	160 / 160			
Grey Scale (bit)	16			
Refresh Rate (Hz)	7680			
Frame Rate (Hz)	≥60			
Scan Type	1/36	1/30	1/24	1/16
Avg Power Consumption (W/m²)	201	154	205	223
Max Power Consumption (W/m²)	670	514	620	675
Operating Temperature	−30°C ~ +60°C			
Humidity	10%-90%			
Protection Grade	IP65 F/B		IP66 F/B	
Color Temperature	6500K ±500			
Input Voltage	AC 110/220V/50/60HZ			
Lifespan (h)	>100000			
Installation	Stacking			

FO series Outdoor fixed LED display



FEATURE

- Aluminum modular system assembles into large custom canvases without bulky housings.
- Self-cooling architecture reduces thermal load and eliminates large enclosures, streamlining structure and cost.
- Corrosion-resistant, slim, and lightweight for lower structural requirements on big installations.
- Module formats: 500×250 mm.
- Brightness options: ≈4500 (3.9 / 4.8) or 6000 (3.9 / 6.25 / 7.8 / 10.4) nits for strong daylight legibility.
- Pixel pitch options: P3.9 / P4.8 / P6.25 / P7.8 / 10.4 for fine-detail outdoor visuals.
- Applications: building façades, rooftop screens, totems, unipoles, landmark media façades, corporate exteriors.

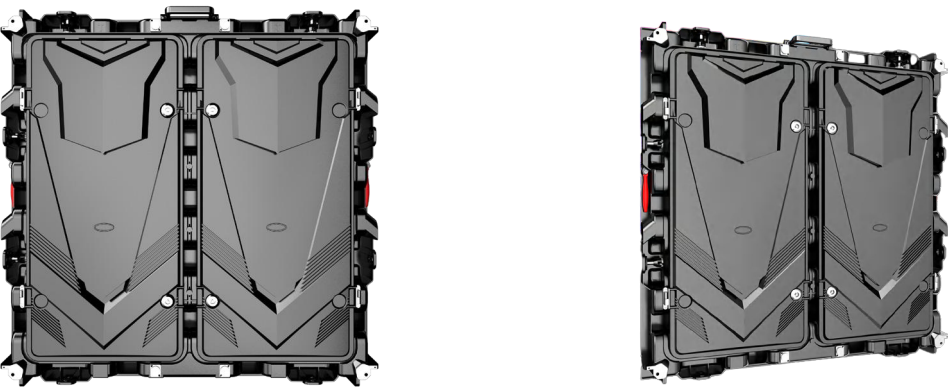
APPLICATION AREAS



PRODUCT PARAMETERS

Description	P3.9	P4.8	P6.2	P7.8	P10.4
Pixel Pitch (mm)	3.91	4.81	6.25	7.81	10.4
LEDs	SMD1921	SMD1921	SMD2727	SMD2727	SMD2727
Pixel Density (dots/m²)	65025	42849	25600	16384	9216
Module Size (mm)	500 x 250				
Cabinet Size (mm)	1000 x 1000				
Cabinet Weight (Kg)	9kg				
Cabinet Material	Aluminum Profile				
Service Method	Front / Rear				
Brightness (cd/m²)	4500 / 6000	4500	6000	6000	6500
Horizontal/Vertical Viewing Angle (°)	160 / 140		160 / 120		
Grey Scale (bit)	14				
Refresh Rate (Hz)	3840				
Frame Rate (Hz)	≥60				
Scan Type	1/16 / 1/8	1/13	1/10	1/8	1/2
Avg Power Consumption (W/m²)	300	201	154	205	223
Max Power Consumption (W/m²)	850	670	514	620	675
Operating Temperature	-30°C ~ +60°C				
Humidity	10%-90%				
Protection Grade	IP65				
Color Temperature	6500K ±500				
Input Voltage	AC 110/220V/50/60HZ				
Lifespan (h)	>100000				
Installation	Stacking				

MR series Outdoor fixed LED display



FEATURE

- Magnesium die-cast chassis for a strong, lightweight build that's easy to rig and service.
- High brightness options (≈5500 or 6000 nits) ensure visibility in direct sunlight.
- IP-rated protection plus built-in fan cooling for extreme weather operation and thermal stability.
- Wide pitch range: P2.5 / P3 / P3.3 / P4 / P5 / P6 / P8 / P10 to suit near- to far-field viewing.
- Consistent color and refresh for crisp motion graphics and video.
- Reliable 24/7 duty cycle for long-term outdoor campaigns.
- Applications: highways and unipoles, city squares, airports/metros, sports venues, outdoor DOOH networks, rooftops.

APPLICATION AREAS



PRODUCT PARAMETERS

Description	P2.5	P3	P3.3	OFL4	OFL5	OFL6	OFL8	OFL10
Pixel Pitch (mm)	2.5	3	3.33	4	5	6.67	8	10
LEDs	SMD1415	SMD1415	SMD1921	SMD1921	SMD1921	SMD2727	SMD3535	SMD3535
Pixel Density (dots/m ²)	250,000	111,111	90,000	62,500	40,000	22,500	15,625	10,000
Module Size (mm)	320 x 160							
Cabinet Size (mm)	640 x 960 / 960 x 960 / 1280 x 960							
Cabinet Weight (Kg)	18 / 26 / 35							
Cabinet Material	Aluminum die casting							
Service Method	Rear							
Brightness (cd/m ²)	≥5500	≥5500	≥5500	≥6000	≥6000	≥6000	≥6000	≥6000
Horizontal/Vertical Viewing Angle (°)	H140 / V120							
Grey Scale (bit)	14							
Refresh Rate (Hz)	≥3840							
Frame Rate (Hz)	≥60							
Scan Type								
Avg Power Consumption (W/m ²)	300							
Max Power Consumption (W/m ²)	850							
Operating Temperature	-30°C ~ +60°C							
Humidity	10%-90%							
Protection Grade	IP65							
Color Temperature	6500K ±500							
Input Voltage	AC 110/220V/50/60HZ							
Lifespan (h)	>100000							
Installation	Hanging/Stacking							

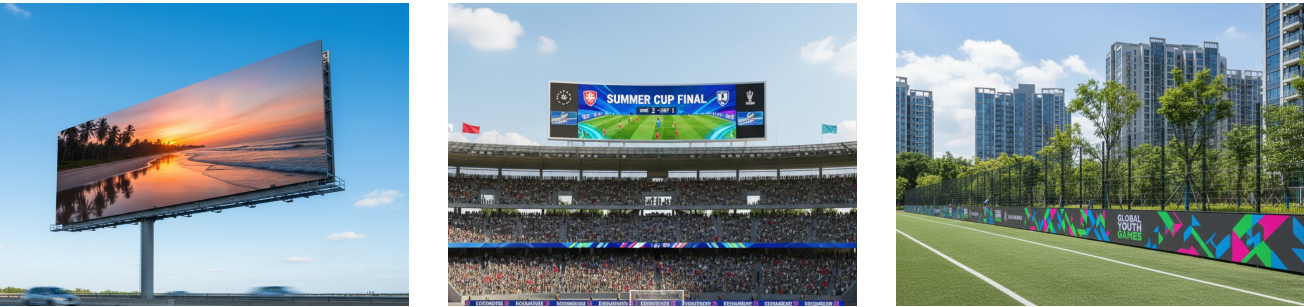
MF series Outdoor fixed LED display



FEATURE

- Perimeter-ready design: can be configured for sports perimeter boards (football/cricket) while still suiting general outdoor signage.
- Magnesium die-cast cabinets deliver lightweight strength for faster installation and easier handling.
- IP-rated construction for dependable performance in rain, dust, and heat.
- Flexible cabinet sizing supports custom aspect ratios and screen footprints.
- Pixel pitch options: P4 / P5 / P6 / P8 / P10 to balance clarity and cost at varying viewing distances.
- Stable alignment and slim profile for clean facades and efficient transport.
- Applications: stadium perimeters, plazas, transport hubs, malls, outdoor event branding, building signage.

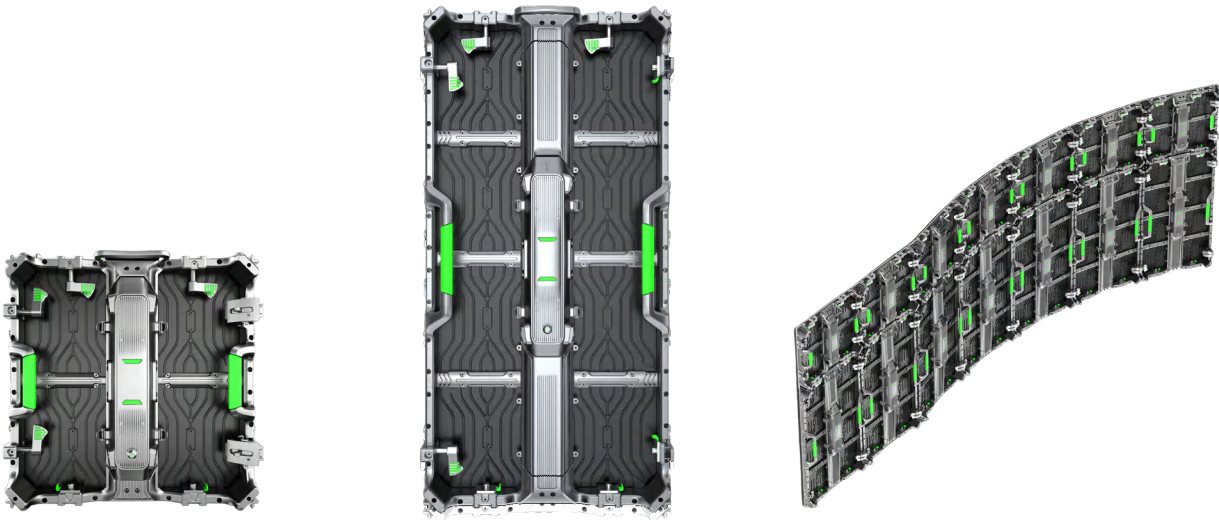
APPLICATION AREAS



PRODUCT PARAMETERS

Description	P4	P5	P6	P8	P10
Pixel Pitch (mm)	4	5	6.67	8	10
LEDs	SMD1921	SMD1921	SMD2727	SMD3535	SMD3535
Pixel Density (dots/m²)	62,500	40,000	22,500	15,625	10,000
Module Size (mm)	320 x 320				
Cabinet Size (mm)	640 x 960 / 960 x 960 / 1280 x 960				
Cabinet Weight (Kg)	18 / 26 / 35				
Cabinet Material	Magnesium Die Cast				
Service Method	Front				
Brightness (cd/m²)	≥6000				
Horizontal/Vertical Viewing Angle (°)	160 / 140				
Grey Scale (bit)	14				
Refresh Rate (Hz)	≥3840				
Frame Rate (Hz)	≥60				
Scan Type	1/16	1/13	1/12	1/10	1/8
Avg Power Consumption (W/m²)	280				
Max Power Consumption (W/m²)	800				
Operating Temperature	-30°C~+60°C				
Humidity	10%-90%				
Protection Grade	IP65				
Color Temperature	6500K ±500				
Input Voltage	AC 110/220V/50/60HZ				
Lifespan (h) / Life time	>100000 / ≥100,000h				
Maintenance	Front / Rear				
Installation	Hanging/Stacking				

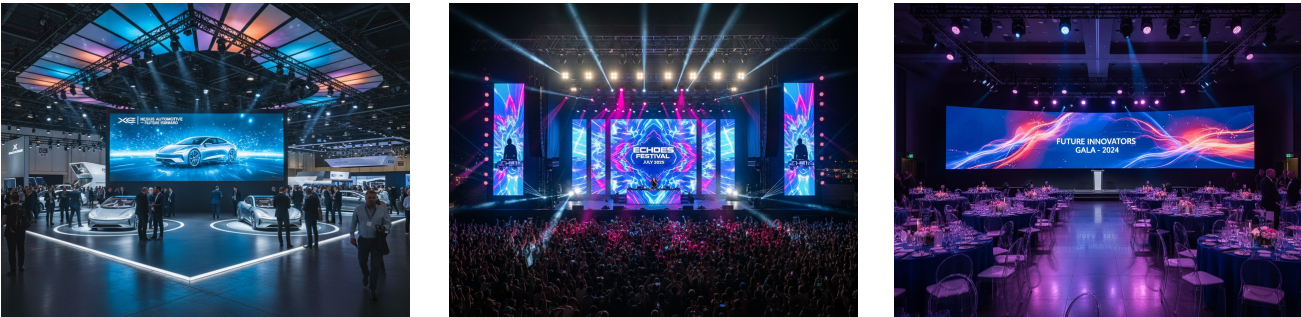
H series Indoor/Outdoor rental LED display



FEATURE

- Slim 85 mm, lightweight die-cast cabinets for faster load-in/load-out.
- Two cabinet formats – 500×500 & 500×1000 mm – mix and match for any stage size.
- Tool-free locking with magnetic front modules for swaps in seconds.
- Front or rear maintenance for maximum on-site flexibility.
- Supports curved walls and corner builds, plus angled splicing for creative sets.
- Touring-grade rigidity and precise alignment for reliable stacking or hanging.
- Indoor & outdoor variants keep a consistent look across venues and conditions.

APPLICATION AREAS



PRODUCT PARAMETERS

	INDOOR				OUTDOOR		
Description	P1.9	P2.6	P2.9	P3.9	P2.6	P2.9	P3.9
Pixel Pitch (mm)	1.95	2.6	2.97	3.91	2.6	2.9	3.9
LEDs	SMD1515	SMD1515	SMD2020	SMD2020	SMD1415	SMD1415	SMD1921
Pixel Density (dots/m ²)	262,114	147,456	112,896	65,536	147,456	112,896	65,536
Module Size (mm)	250 x 250				250 x 250		
Cabinet Size (mm)	500 x 500 / 500 x 1000				500 x 500 / 500 x 1000		
Cabinet Weight (Kg)	7 / 12				7.5 / 13		
Cabinet Material	Aluminum die casting				Aluminum die casting		
Service Method	Front				Rear		
Brightness (cd/m ²)	800	1000			≥4500		
Horizontal/Vertical Viewing Angle (°)	H160/V160				H160/V160		
Grey Scale (bit)	14 - 16				14 - 16		
Refresh Rate (Hz)	≥3840				≥3840		
Frame Rate (Hz)	≥60				≥60		
Scan Type	1/32		1/28	1/16	1/24	1/21	1/16
Avg Power Consumption (W/m ²)	180				240		
Max Power Consumption (W/m ²)	520				680		
Operating Temperature	-30°C ~ +60°C				-30°C ~ +60°C		
Humidity	10%-90%				10%-90%		
Protection Grade	IP31				IP65		
Color Temperature	6500K ±500				6500k ±500		
Lifespan (h)	>100000				>100000		
Installation	Hanging/Stacking				Hanging/Stacking		

T series Transparent LED display



FEATURE

- Up to 80% transparency – deliver dynamic content without blocking views or daylight.
- Indoor & outdoor options – one design language across storefronts, facades, and atriums.
- Sunlight-readable brightness for clear visibility on glass even in high-ambient environments.
- Lightweight, slim modules that mount directly to glass structures for quick retrofits.
- Energy-efficient operation with an average power draw of ~240 W/m² to lower running costs.
- Design-friendly integration – keep interiors bright and open while adding premium digital signage.
- Ideal applications: retail windows, shopping malls, auto showrooms, corporate lobbies, airports, museums, and glass façades.

APPLICATION AREAS



PRODUCT PARAMETERS

Description	T2.6-5.2	T2.8-5.6	T3.9-7.8	T7.8
Pixel Pitch (mm)	2.6-5.2	2.8-5.6	3.9-7.8	7.8
LEDs	SMD1921/SMD2020	SMD1921/SMD2020	SMD1921	SMD1921
Scan model	1/12	1/11	1/16	1/4
Module size (mm)	500 x 125	500 x 125	500 x 125	500 x 125
Module quantity (pcs/m²)	16	16	16	16
Cabinet size (mm)	1000 x 500	1000 x 500	1000 x 500	1000 x 500
Pixel density (dots/m²)	73,728	61,952	32,768	16,384
Transparency	70%	70%	75%	75%
Cabinet material	Aluminum die casting			
Cabinet weight (Kg)	6			
Brightness (cd/m²)	≥ Indoor- 1200, Outdoor ≥5000			
Horizontal/Vertical Viewing Angle (°)	H140/V140			
Gray level (bit)	14			
Scan Type	1/12	1/12	1/16	1/16
Refresh rate (Hz)	>3840			
Input voltage	AC110/220V/50/60Hz			
Avg Power Consumption (W/m²)	240			
Max Power Consumption (W/m²)	700			
Per sqm weight (Kg)	12			
Protection level	IP 65/31			
Working temperature	-20°C ~ +60°C			
Working humidity	10%-90%RH			
Life time	≥100,000h			
Maintenance	Front / Rear			
Installation	Hanging			

Poster LED display



FEATURE

- Slim, portable floor-standing LED poster designed for quick deployment and high impact.
- Pixel pitch options: 1.8 / 2.0 / 2.5 mm for crisp, close-range viewing.
- High refresh and vivid brightness – brighter than LCD posters for more eye-catching content.
- Plug-and-play control via mobile app, USB, or Wi-Fi for easy updates.
- Multi-screen cascade to create panoramic or mosaic displays across multiple posters.
- Stable freestanding base for secure placement in retail aisles, lobbies, and event spaces.
- Ideal for retail promotions, exhibitions, airports, hospitality, and corporate reception areas.

APPLICATION AREAS



PRODUCT PARAMETERS

Description	IP2.5	IP2	IP1.8
Pixel Pitch (mm)	2.5	2	1.86
LEDs	SMD2020	SMD1515	SMD1515
Module size (mm)	320 x 160		
Module resolution	128x64	160x80	172x86
Poster size (mm)	640 x 1920 x 48		
Display density (dot)	196,608	307,200	355,008
Brightness (cd/m²)	≥800		
Gray level (bit)	14		
Viewing distance (m)	3-100	2-100	1-100
Horizontal/Vertical Viewing Angle (°)	H160 / V160		
Frame Rate (Hz)	≥60		
Refresh rate (Hz)	≥3840		
Lifetime (hour)	100,000		
Continuous working time	≥72 hours		
Operating Temperature	-20°C ~ +60°C		
Humidity	10%-90%		
Input Voltage	AC110/220V/50/60Hz		
Avg Power consumption (W/Pc)	180		
Max Power consumption (W/Pc)	520		
Maintenance method	Rear		
Screen weight (kg/set)	≤55		
Control method	Ethernet cable, WIFI, USB		