APEXLS

CATALOG *Professional LED Display Solutions Provider*

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Company's Wechat Account　　Cases Show

Value participation, Innovation, Integrity, Sharing and mufuql benefifs

APEXLS

Innovation Leads Colorful life

Professional LED Display Solutions' Provider

CONTENTS

ABOUT US

Shenzhen Apexls Optoelectronic Co.,Ltd. (www.kszled.com), a subsidiary company of Ledman Group., which was registered in 2009 with the capital ￥23,142,900.00, is the leader of creative LED display. With rapid and healthy development, Apexls became an integrated manufacturer of LED products, covering developing, producing, marketing and servicing of all kinds of conventional LED display and creative LED displays. Apexls industry park located in Bao'an district, which takes 20 minutes driving from Shenzhen International airport, made by a workshop of 36,000.00 ㎡ and a living dorm of 12,000.00 ㎡ with over 300 employees. Now Apexls LED display products have been sold to over 80 countries and areas, such as USA, Canada, Mexico, Spain, Croatia, Bulgaria, Romania, Poland, Germany, Italy, Austria, Korea, Japan, Hong Kong and Macau. etc.

Apexls have designed and produced LED display products like Sphere LED display, dome LED display, Triangle LED display, Flexible LED display, Can shaped LED display, Christmas tree shaped LED display, Logo LED display, Curtain LED display and so on, highly approved by domestic client and overseas. Strictly raw material selection and use, advanced workman-ship process, strictly quality checking procedures, all made Apexls' products high stability and high reliability, and all these made Apexls' clients more loyal, Apexls signed distributors in Canada for sports field, Outdoor bill board filed in Portugal, Dome LED field in Japan, Flexible LED field in Germany, etc, and will be more and more in other areas, other field.

Apexls always insists clients' needs oriented, providing the professional solutions, products, services, to meet the requests and demands from end users. Value participated, Innovation, Integrity, sharing and mutual benefits is the core values of Apexls, Apexls will steadfastly growing to be the world-class LED display solutions' provider.

PARTNER

SPHERE LED DISPLAY

Apexls LED spherical screen is a creative LED spherical display screen, with multiple display splits, telescopic special-shaped display, uniform technology display high-definition picture without distortion, super advertising value. Has a number of national patent certificates and won the Shenzhen Enterprise Innovation Record.

Application areas: museums, planetariums, science and technology museums, children's palaces, exhibition halls, gymnasiums, waiting halls, star hotels, large open spaces, railway stations, ports, shopping malls, bars and other places.

❯ **Seamless assembly**
Customized PCB design with seamless splicing

❯ **Hollow aluminum structural design**
Lightweight design, excellent heat disspation

❯ **Size customized**
Customizable pixel pitch and diameter

❯ **360 degree view angle**
High impact visual, good eye-catching

Floor standing   Hoisting   Embedded
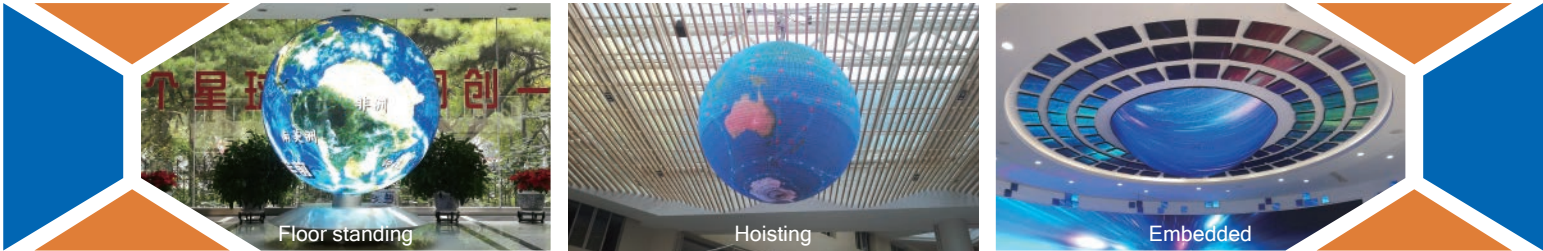
❯ PARAMETERS

Model	Indoor					Outdoor		
	P1.8	P2	P2.5	P3	P4	P5	P6	P10
Pixel pitch(mm)	1.875	2	2.5	3	4	5	6	10
Diameter(m)	1.5	1.6	2	1.2、1.5、1.6 1.8、2、2.6、3	1、1.5、1.8 2、3、4、5	2.5	2、3	2、6、8
LED type	SMD1212	SMD1212	SMD1515	SMD1515	SMD2121	SMD1921	SMD1921	SMD3535
Pixel density(dots/m²)	284,445	250,000	160,000	111,111	62,500	40,000	27,777	10,000
Brightness(cd/m²)	1,000	1,000	1,000	1,000	1,200	5,000	5,000	7,500
Avg power consumption(W/m²)	150	150	150	150	200	270	270	430
Max power consumption(W/m²)	450	450	450	450	550	600	600	870
Refresh rate(Hz)	1,920-3,840							
Input voltage	AC100-240V/50-60Hz							
Life span	100,000 hours							
Working temperature	-20°C～60°C							
Working humidity(RH)	10%～90%							
Gray scale	12-16 bit							

❯ SUCCESSFUL CASES

LED CAN DISPLAY

Apexls LED cans, a personalized product for precise market application, can be used in scenes such as landscapes, exhibitions, and vending machines. The product has high practical value, outstanding innovation, energy saving and environmental protection, and it is the first of its kind in the domestic industry. Has a number of national patent certificates and won the Shenzhen Enterprise Innovation Award.

Application areas: museums, planetariums, science and technology museums, children's palaces, exhibition halls, gymnasiums, waiting halls, star hotels, large/open spaces, railway stations, ports, shopping malls, bars and other places.

High refresh rate   360° Viewing angle   Efficient and stable   Quick installation

Artistic modeling   HD display   High grayscale   Snap evenly

❯ PARAMETERS

| Model	P3.3	P6	P8
Pixel pitch(mm)	3.3	6	8
Overall size(mm)	Φ1120×2400mm	Φ950×1670mm	Maximum outer diameter 1.633m, minimum outer diameter 1.495m, height 3.121m
LED type	SMD2121	SMD2121	SMD3528
Pixel density(dots/m²)	90,000	27,777	15,625
Scan mode	1/24	1/8	1/4
Brightness(cd/m²)	≥1,000	≥1,200	≥7,000
Avg power consumption(W/m²)	1000-1500	250-300	3,500-4,000
Max power consumption(W/m²)	1000-1500	600	10,000
Weight(kg)	250	210	600
Overall resolution(dots)	1024x512	512x256	630x344
Refresh rate(Hz)	1920-3840	1920-3840	1920-3840
Overall area	8.44	4.98	16
Working environment	indoor	indoor	outdoor
Gray scale(bit)	12-16bit		
Life time (hrs)	≥86,400 hours		
Mtbf	≥5,000%		
Discrete out of control point(%)	<0.0001		

❯ SUCCESSFUL CASES

LED CYLINDER DISPLAY

Apexls LED cylindrical screen is specially designed for engineering projects, widely used in various science museums, exhibition rooms, hotels and other places, especially suitable for various irregular buildings. It can play videos, pictures, documents, 3D animations and other graphic and textual program materials. And complete the visual communication in a real-time, synchronous and clear information dissemination way.
Application: Hotel advertising, stage rental, large shopping malls, outdoor gymnasiums, concerts, playgrounds, sightseeing areas, etc.
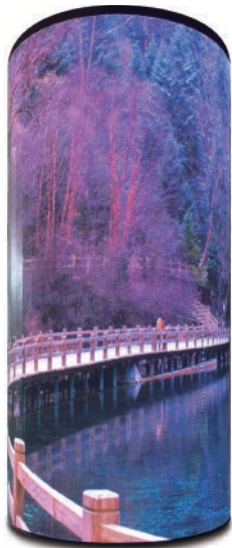
Seamless stitching   Creative customization

360° Viewing angle   High refresh rate

❯ PARAMETERS

Model	P2	P2.5	P4	P6	P10
Pixel pitch(mm)	2	2.5	4	6	10
Pixel composition	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B
LED type	SMD1515	SMD2121	SMD2121	SMD2121	SMD3528
Pixel density(dots/m²)	250,000	160,000	62,500	27,777	10,000
Scan mode	1/30	1/24	1/16	1/8 or 1/16	1/8
Brightness(cd/m2)	≥1,000	≥1000	≥1000	≥1,000	≥1,000
Avg power consumption(W/m²)	230	230	300	300	112.5
Max power consumption(W/m²)	500	500	600	600	250
Weight(kg)	Depends on cylindrical size	Depends on cylindrical size	Depends on cylindrical size	Depends on cylindrical size	Depends on cylindrical size
Viewing distance (m)	2	2.5	4	6	12
Refresh rate(Hz)	1920	1920	600-5000	960-5000	600-5000
Cylindrical size	Customizable	Customizable	Customizable	Customizable	Customizable
Working environment	Indoor	Indoor	Indoor	Indoor	Indoor
Gray scale(bit)	4096-16384	4096-16384	4096-65536	4096-65536	4096-65536
Life span	≥100,000 hours				
Mtbf	≥10,000 hours				
Discrete out of control ooint(%)	<0.0001				

❯ SUCCESSFUL CASES
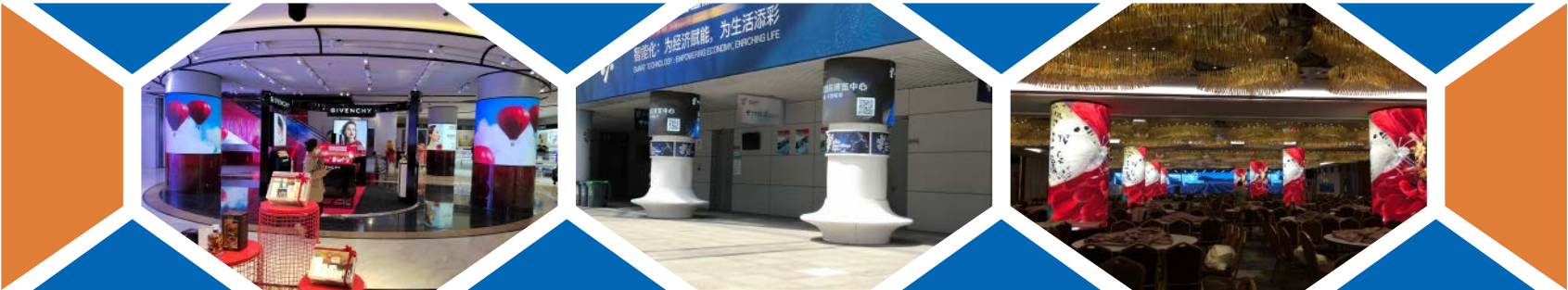
TRIANG LED DISPLAY

APEXLS triangular display is composed by customized triangular LED modules, which can be spliced into variety of polygonal shape LED screens according actual needs.

Applications are: Hotel, Advertising, Stage , TV studio, Shopping Mall, Outdoor Gymnasiums, Concerts, Theme Park and so on.

Seamless splicing   Creative customization

High refresh rate   Stable and reliable

❯ PARAMETERS

Model	P6
Pixel pitch(mm)	6
Pixel composition	1R1G1B
LED type	SMD2121
Pixel density(dots/m²)	27,777
Scan mode	1/8
Brightness(cd/m²)	≥1300
Avg power consumption(W/m²)	200-250
Max power consumption(W/m²)	600
Resolution(dots)	192x192(bottom x height)
Side length	1152×1152×1152mm
Gray scale(bit)	12-16bit
Weight(kg)	15（kg/m²)
Gross weight	≤25（kg/m²)
Life span	>72 hours
Mtbf	≥10,000 hours
Discrete out of control point(%)	<0.01%
IP rating	IP31

❯ SUCCESSFUL CASES

PUZZLE LED DISPLAY

APEXLS combines traditional Chinese wisdom and modern creativity, through use 30 pieces LED panels to seamlessly splicing a creative Luban lock LED display.

Applications are: Science and Technology Museums, Exhibition Halls, Outdoor Advertising, Theme Park and so on.
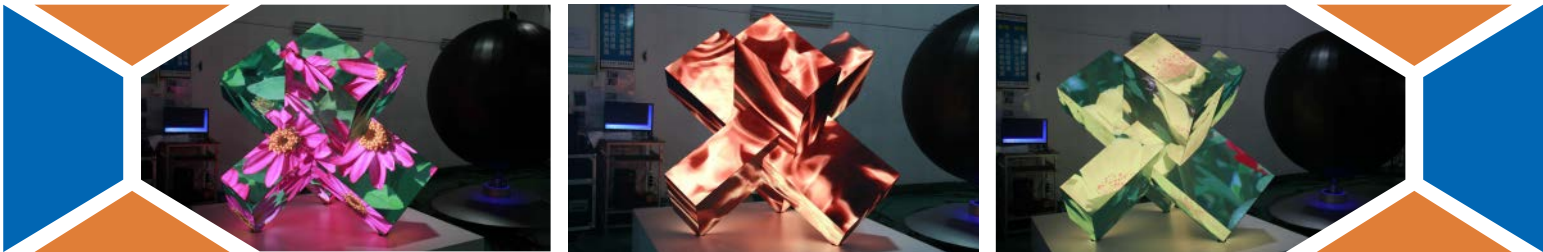
Seamless splicing   Creative customization

High refresh rate   Compatible with multiple signal sources

❯ PARAMETERS

Model	P2.5
Pixel pitch(mm)	2.5
Pixel composition	1R1G1B
LED type	SMD2121
Pixel density(dots/m²)	160,000
Scan mode	1/32
Brightness(cd/m²)	≥1200
Avg power consumption(W/m²)	400
Max power consumption(W/m²)	800
Resolution(dots)	2304x1536
Overall size	A total of 6 sides / single side size 803.1×605×285mm
Overall area (m²)	9.53
Refresh rate(Hz)	1920Hz (600Hz-5000Hz adjustable)
Gray scale(bit)	8192 (4096-65536 adjustable)
AC input voltage	110-240V ±10%
Life span	≥100,000 hours
Mtbf	≥10,000 hours
Discrete out of control point(%)	<0.0001%

❯ SUCCESSFUL CASES
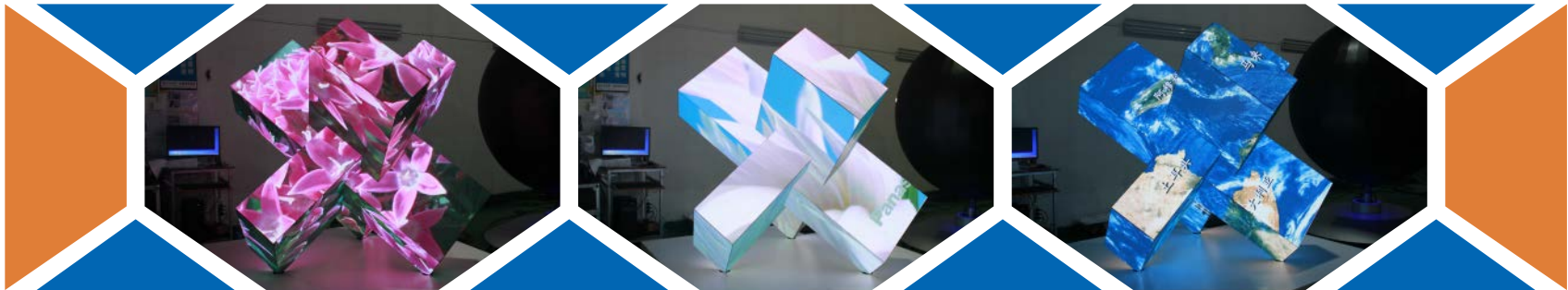
DOME LED DISPLAY

The LED dome screen is the core technology product L4D LED dome screen created by Apexls. R & D team department Broken through several technical difficulties. Make the view angle more larger and clearer, impressive and immerse scenario brings to audience the feeling of surrounded visual enjoyment.

Applications are : Museum, Science and Technology Museum, Planning Museum, Planetarium, Children's Palace, Exhibition Halls, Artistic Performances, Theme Activities, Architectural Dynamic Visual Lighting, Military Virtual Simulation, School Virtual Teaching and Industrial Virtual Simulation.

4D
Realistic 4D feeling

Stable and reliable

Good stereo effect

Snap evenly

Customizable design

High contrast

> PARAMETERS

Model	P2	P4
Pixel pitch(mm)	2	4
Pixel composition	1R1G1B	1R1G1B
LED type	SMD1212	SMD1515
Pixel density(dots/m²)	250,000	62,500
Scan mode	1/32	1/16
Brightness(cd/m²)	800-1000	800
Avg power consumption(W/m2)	150-200	150-200
Max power consumption(W/m2)	600	600
Refresh rate(Hz)	3840Hz	3840Hz
Gray scale(bit)	12-16bit	12-16bit
Arc center angle	Customized according to needs	
LED cabinet weight (kg/pc)	40（kg/m²）	50（kg/m²）
Gross weight(kg/m²)	≤60（kg/m²）	
Life span	>72 hours	
Mtbf	>10,000 hours	
Discrete out of control point(%)	<0.01%	

> SUCCESSFUL CASES

FLEXIBLE LED DISPLAY

APEXLS flexible screen is by soft LED modules. Compared with traditional screens, flexible screens have more advantages for creative solutions.

It can achieve creative shape, like Cylinder, Concave, Convex, Wave Shape, Mobius Strip etc.

Various pixel pitch optional, P1.5 , P1.8, P2.5, P4 to meet different requirements.

Applications are: Museums, Shopping Mall, Advertising, Exhibitions, Hotel, Theme Park and so on.
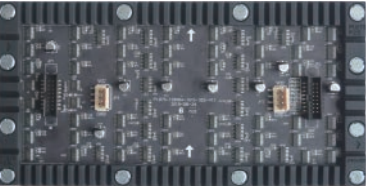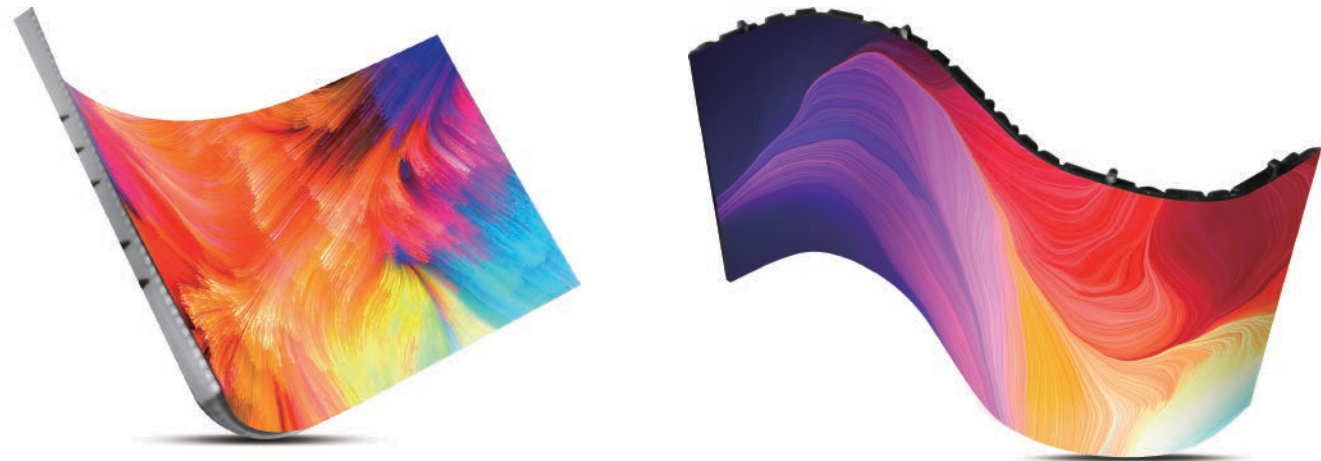
P1.875/P2.5/P3/P4   P2.5 Bracket

› PRODUCT FEATURES

■ Flexible Module+GOB
To adopt surface waterproof requirement, glue on board treatment is applied to flexible modules.

■ Simple & Moldable
Every flexible module has several magnetic columns with quick butt-joint signal and electricity wires, firm and reliable, easily to be assembled or dismantled, simply the best to moldify various columns, waves, belts or curve screens,etc.

■ Soft & Curlable
Equipped with flexible & high temperature resistant FPC PCB, bending resistant silicone bracket, embedded magnet pieces, freely to serve the curve or twisted Led Display creations.

■ Slim & Graceful
Regardless of flexible module model, every piece has the thickness ≤4 mm & weight ≤ 260g, splicing error ± 0.1 mm, it can be arbitrarily shaped according to project demanding, seamless spliced and suitable for installation methods such as hoisting, seating, embedding or wall-mounting...
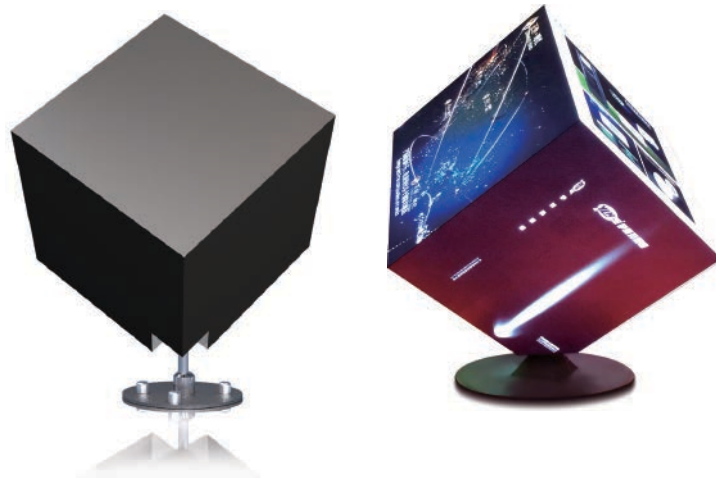
› PARAMETERS

Model	P1.875	P2.5	P3	P4
LED type	SMD1515	SMD1515/2121	SMD2121	SMD2121
Pixel density (dot/m²)	284,444	160,000	108,921	62,500
Module size (mm)	240X120	240X120	240X120	240X120
Module resolution (dots)	128X64	96X48	80X40	60X30
Refresh rate (Hz)	3,840	3,840	3,840	3,840
Brightness (nits)	800-1,000	800-1,000	800-1,000	800-1,000
Max. power (W/m²)	680	650	600	560
Ave. power (W/m²)	200	180	175	160

› SUCCESSFUL CASES

CUBE LED DISPLAY

APEXLS LED cubes are seamlessly spliced, 360° viewing angle with unique shape, gorgeous effect, great visual viewing and commercial value.
The screen body can be designed as a mechanical rotating device around the axis, too.
Application areas: museums, planetariums, science and technology museums, children's palaces, exhibition halls, gymnasiums, etc.

Creative custom   Efficient and stable

Seamless stitching   360° Viewing angle

❯ PARAMETERS

| Model	P2.5	P4
Pixel pitch(mm)	2.5	4
Pixel composition	1R1G1B	1R1G1B
LED type	SMD2121	SMD2121
Pixel density(dots/m²)	160,000	62,500
Scan mode	1/32	1/16
Brightness(cd/m²)	≥1200	≥1500
Avg power consumption(W/m²)	200-250	250-300
Max power consumption(W/m²)	520	620
Module size(mm)	160x160	128x128
Module resolution(dots)	64X64	32X32
Refresh rate(Hz)	4096	
Gray scale(bit)	4096~65536 levels	
Life span	>72 hours	
Mtbf	>10,000 hours	
Discrete out of control point(%)	<0.0001%	

❯ SUCCESSFUL CASES

DIAMOND LED DISPLAY

Apexls LED diamond screen is an LED art-level technology display screen. There are as many as dozens of diamond shapes on cutting surfaces, showing different color creative changing effects; with advanced display visual technology, It is completely adapted to the human eyes' perception habits,truly restore the colors of nature.
Application areas: used in museums, science and technology museums, exhibition halls, shopping malls, decorative advertising, decorative lighting projects and other places.
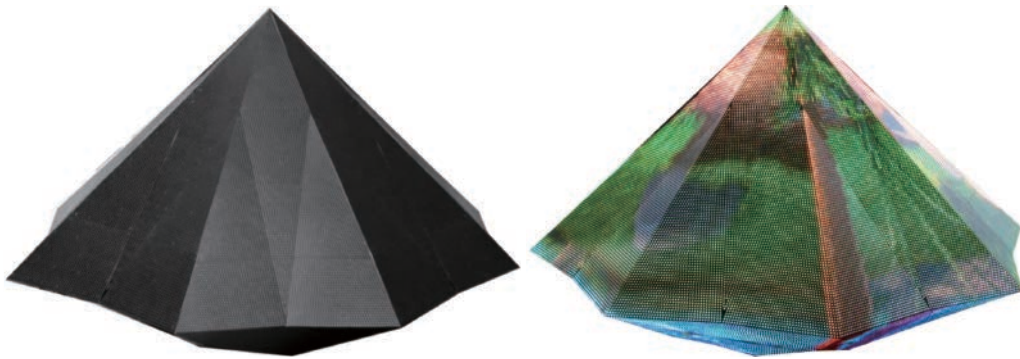
Creative custom   Stable and reliable

360° Viewing angle   Snap evenly

❯ PARAMETERS

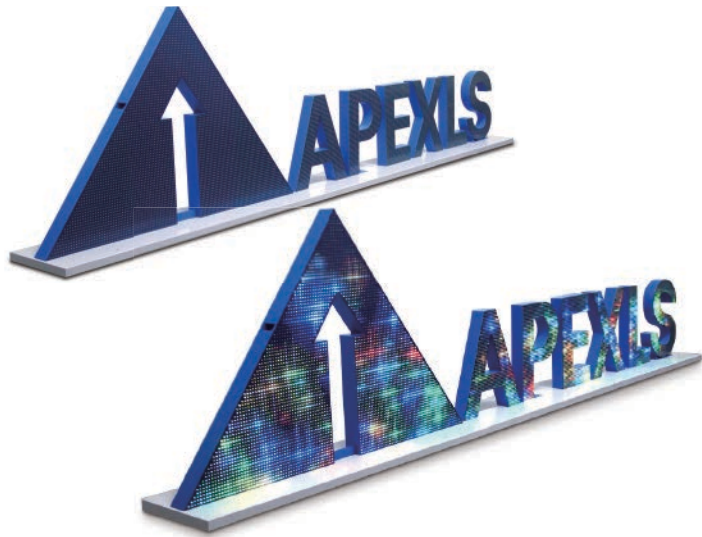| Model	P6
Pixel pitch(mm)	6
Pixel composition	1R1G1B
LED type	SMD2121
Pixel density(dots/m²)	27,777
Scan mode	1/8
Brightness(cd/m²)	≥1300
Avg power consumption(W/m²)	200-250
Max power consumption(W/m²)	600
Module size (mm)	Customized according to needs
Cabinet size (mm)	Customized according to needs
Module resolution(dots)	Customized according to needs
Weight(kg)	16kg
Gross weight(kg)	49kg
Refresh rate(Hz)	1920Hz
Gray scale(bit)	12-16bit
Mtbf	≥10,000 hours
Discrete out of control point(%)	<0.01%

❯ SUCCESSFUL CASES

LOGO LED DISPLAY

Apexls LED LOGO video logo is a creative custom module LED display. It is a logo display developed for the shortcomings of traditional luminous characters, such as low brightness, single display, and inapplicability during the day. Suitable for Indoor and outdoor, presenting effects such as logos and lighting, and has both luminous characters and video playback dynamic display creative effects.

Application field: It is used in indoor and outdoor LED display places for the company's trademark, name, business and other advertising.
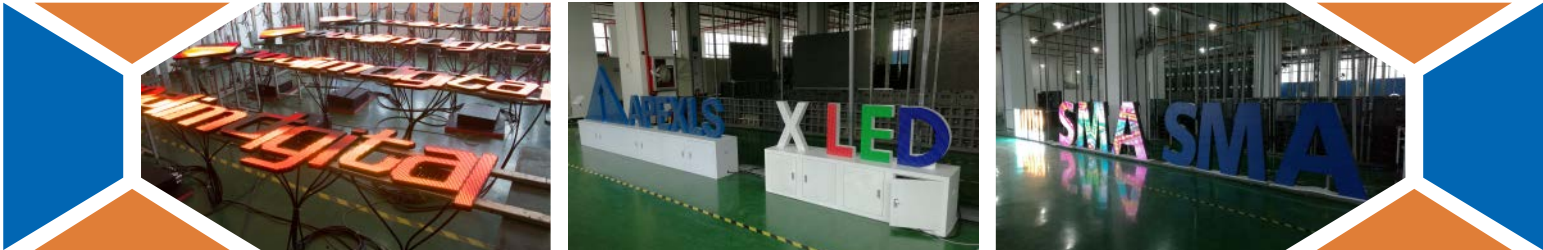
Seamless stitching   Creative custom

Integrated display   Easy maintenance

> PARAMETERS

Model	P2.5	P3	P4	P5	P10
Pixel pitch(mm)	2.5	3	4	5	10
Pixel composition	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B
LED type	SMD2121	SMD2121	SMD2121	SMD2121	SMD3528
Pixel density(dots/m²)	160,000	111,111	62,500	40,000	27,777
Scan mode	1/32	1/32	1/16	1/8	1/8
Brightness(cd/m²)	1,200	1,000	1,200	1,500	1,200
Avg power consumption(W/m²)	200-250	150-200	200-250	250-300	200-250
Max power consumption(W/m²)	530	450	550	650	550
Module size (mm)	Customized according to different LOGO				
Module resolution(dots)	Customized according to different LOGO				
Refresh rate(Hz)	960				
Grayscale correction (bit)	256~4096 levels				
Brightness adjustment	256 Brightness levels				
Mtbf	≥10,000 hours				
Discrete out of control point(%)	<0.0001%				

> SUCCESSFUL CASES

TRUMPET LED DISPLAY

APEXLS Trumpet-shaped display screen is designed and assembled with various patented special-shaped modules, intertwined with sound, shadow and lighting system, to perfectly combined with the building support column by high-tech methods. Standing under the screen, audiences would have full experience of immersive, astonish feeling by video contents and sound effects.

Application areas: large shopping malls, railway stations, airports, etc.

Seamless stitching　　360° Viewing angle

Creative customization　　HD display

❯ PARAMETERS

Model	P4	P6
Pixel pitch(mm)	4	6
Pixel composition	1R1G1B	1R1G1B
LED type	SMD2121	SMD2121
Pixel density(dots/m²)	62,500	27,777
Scan mode	1/16	1/8 or 1/16
Brightness(cd/m²)	≥1,200	≥1,000
Avg power consumption(W/m²)	250-300	300
Max power consumption(W/m²)	≤550	≤600
Viewing distance (m)	4	6
Weight (kg)	Depends on cylindrical size	Depends on cylindrical size
Refresh rate(Hz)	960~5000	
size(m)	Customizable	
Life span	≥1,000,000 hours	
Mtbf	≥10,000 hours	
Discrete out of control point(%)	<0.0001%	

❯ SUCCESSFUL CASES

LED CIRCULAR DISPLAY

The LED circular screen is a special-shaped LED display customized according to the site and customer requirements. It has a perfect artistic shape, which can set off the atmosphere of the scene. Edge-free and edge covering designs are available upon request.

It is widely used in indoor and outdoor areas such as stages, studios, hotels, airports, science and technology museums, street advertisements and landscape landmarks.

Customizable   High refresh rate

Creative   Snap evenly

❯ PARAMETERS

Model	P3	P3	P10	P10
Pixel pitch(mm)	3	3	10	10
Pixel composition	1R1G1B	1R1G1B	1R1G1B	1R1G1B
LED type	SMD1515	SMD1515	SMD3535	DIP346
Pixel density(dots/m²)	111,111	111,111	10,000	10,000
Use environment	indoor	indoor	outdoor	outdoor
Scan mode	1/32	1/32	1/2	1/4
Brightness(cd/m²)	≥1,000	≥1,000	≥6,000	≥7,000
Diameter	58cm	95cm	5m	8.6m
Avg power consumption(W/m²)	250	250	300	215
Max power consumption(W/m²)	550	550	800	650
Refresh rate(Hz)	1,920-3,840	1,920-3,840	1,920-3,840	1,920-3,840
Viewing distance(m)	≥3m	≥3m	≥10m	≥10m
LED drive method	constant current			
IP grade	front/rear: IP31			
Gray scale	14 bit			
Input voltage	AC100-240V/50-60Hz			
Working temperature	-20°C～60°C			
Working humidity	10%RH～90%RH			
Life span	100,000 hours			
Mtbf	>10,000 hours			

❯ SUCCESSFUL CASES

COB LED DISPLAY

Adopting world's first third-generation COB display technology, the LED display panel has higher protection performance (shock-proof, anti-colli-sion, moisture-proof, and display surface waterproof), higher reliability, higher contrast, better picture quality, more flexible and convenient splicing and higher environmental adaptability. It is widely used in indoor.
Application areas: studio halls, security monitoring centers, conference rooms, command and control centers, etc.

R Series Models　　　　　　　　　　　　　　　　　M Series Models

❯ PRODUCT FEATURES

■ Easy cleaning
■ Anti-collision,Anti-vibration
■ Extremely low pixel failure rate

■ Dustproof
■ High contrast,high gray scale,high refresh rate
■ 16:9 display,2K 4K 8K ,point to point splicing

❯ PARAMETERS

Model	R0.9A	R1.2A	R1.5A	M0.7	M1.2	M1.5	M1.9
Pixel pitch(mm)	0.93	1.25	1.56	0.79	1.26	1.58	1.9
Cabinet size(mm)	600x337.5x59.5	600x337.5x59.5	600x337.5x59.5	608x342x71	608x342x71	608x342x71	608x342x71
Cabinet resolution(dots)	640x360	480x270	384x216	768x432	480x270	384x216	320x180
Material	Die-casting aluminum						
Cabinet weight(kg)	7.1	7.1	7.1	7.2	7.2	7.2	7.2
Brightness(cd/m²)	450	600	600	450	600	600	600
Gray scale(bit)	13	13	12	14	14	13	14
Refresh rate(Hz)	1920-3840	1920-3840	1920-3840	4500	3960	3180	3900
Power max./avg.(W/m²)	500/166	500/166	500/166	410/136	440/146	410/136	420/140
Installation/maintenance	Front						
Certification	CE ETL FCC RoHS						

❯ SUCCESSFUL CASES

FINE PIXEL PITCH

APEXLS small-pitch series is a micro-pitch LED display suitable for any indoor scene. Has become a new generation of LCD splicing walls and DLP projection splicing products alternatives, to provide customers with high-quality display services in information dissemination, brand display. Application areas: studios, security monitoring centers, conference rooms, command and control centers, etc.

❯ Seamless,high definition

❯ High gray scale,lossless technology

❯ Intelligent brightness adjustment

❯ High refresh,improve visual comfort

❯ Low radiation,zero noise

❯ Point-by-point correction

❯ PARAMETERS

Model	P1.25	P1.56	P1.875
Pixel pitch(mm)	1.25	1.56	1.875
LED configuration	1R1G1B	1R1G1B	1R1G1B
LED type	SMD1010	SMD1010	SMD1515
Pixel density(dots/m²)	640,000	409,600	284,444
Cabinet size(mm)	600x337.5	600x337.5	600x337.5
Cabinet resolution(dots)	480x270	384x216	320x180
Module size(mm)	300x337.5	300x337.5	300x337.5
Module resolution(dots)	240x270	192x216	160x180
Cabinet material	Die-casting aluminum		
Cabinet weight(kg)	7.5	7.5	7.5
Brightness(cd//m²)	≥550	≥550	≥550
Power max./avg.(W/m²)	500/150	500/150	500/150
Refresh rate(Hz)	1920~3840		
Gray scale(bit)	12 ~ 16		
Input voltage	AC100~240V/50~60Hz		
Working temperature	-20℃~60℃		
Installation/maintenance	Front/Rear		
Life span	100,000 hours		
Mtbf	>100,000 hours		
Certification	CE ETL FCC RoHS		

❯ SUCCESSFUL CASES

FINE PIXEL PITCH

APEXLS small-pitch series is a micro-pitch LED display suitable for any indoor scene. Has become a new generation of LCD splicing walls and DLP projection splicing products alternatives, to provide customers with high-quality display services in information dissemination, brand display. Application areas: studios, security monitoring centers, conference rooms, command and control centers, etc.

❯ Seamless,high definition

❯ High gray scale,lossless technology

❯ Intelligent brightness adjustment

❯ High refresh,improve visual comfort

❯ Low radiation,zero noise

❯ Point-by-point correction

❯ PARAMETERS

| Model	P1.25	P1.53	P1.86	P2
Pixel pitch(mm)	1.25	1.53	1.86	2
LED configuration	1R1G1B	1R1G1B	1R1G1B	1R1G1B
LED type	SMD1010	SMD1010	SMD1515	SMD1515
Pixel density(dots/m²)	640,000	422,500	288,906	250,000
Cabinet size(mm)	640x480	640x480	640x480	640x480
Cabinet resolution(dots)	512x384	416x312	344x258	320x240
Module size(mm)	320x160	320x160	320x160	320x160
Module resolution(dots)	256x128	208x104	172x86	160x80
Cabinet material	Die-casting aluminum			
Cabinet weight(kg)	11.5	11.5	11.5	11.5
Brightness(cd//m²)	≥550	≥550	≥550	≥800
Power max./avg.(W/m²)	650/150	650/150	650/150	650/150
Refresh rate(Hz)	1920~3840			
Gray scale(bit)	12 ~ 16			
Input voltage	AC100~240V/50~60Hz			
Working temperature	-20℃~60℃			
Installation/maintenance	Front/Rear			
Life span	100,000 hours			
Mtbf	>100,000 hours			
Certification	CE ETL FCC RoHS			

❯ SUCCESSFUL CASES

LED TRANSPARENT SCREEN

With the development of display technology, APEXLS transparent LED display is more and more popular own to its light, thin and transparent features.

Application areas: Shopping mall, commercial advertisement, technology museum , etc.
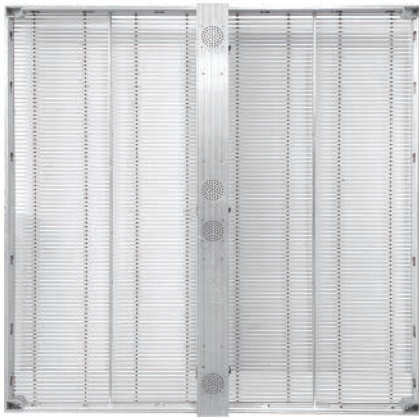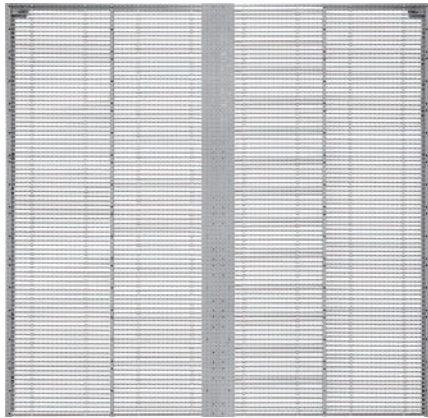
Ultra thin

Ultra-high brightness

High transparency

Good heat dissipation

High grayscale

High refreshrate

> PARAMETERS

| Model	P3.91-7.81	P7.81-7.81	P10.416
Pixel pitch(mm)	3.91*7.81	7.81*7.81	10.416
Permeability(%)	48%	55%	60%
LED type	SMD1921	SMD1921	SMD1921
Pixel density(dots/m²)	32,768	16,384	9,216
Working environment	outdoor	indoor	outdoor
Scan mode	1/8	1/4	1/2
Brightness(cd/m²)	3,500	4,000	4,500
Avg power consumption(W/m²)	250-300	150-200	250-300
Max power consumption(W/m²)	800	550	800
Size(mm)	1000x500 / 1000x1000	1000x500 / 1000x1000	1000x500 / 1000x1000
Weight(kg)	5.3	9	5
Frame change frequency (Hz)	50/60	50/60	50/60
Refresh rate(Hz)	1920-3840	1920-3840	1920-3840
Gray scale(bit)	12-16bit	12-16bit	12-16bit
Module size(mm)	500x125	500x125	500x125
Module resolution(dots)	128x16	64x16	48x16
AC input voltage	110-240V ±10%		
Life time (hrs)	≥100,000 hours		
Mtbf	≥5,000 hours		
Discrete out of control point(%)	<0.0001		

> SUCCESSFUL CASES

LED CURTAIN DISPLAY

APEXLS LED Curtain Display , also called LED Mesh Display, is high transparency outdoor led display.It is 65% lighter than conventional LED display and has less requirement for steel structure than conventional LED Display. High transparency ensure it reduce much impact of the natural lighting and provide better viewing for buildings than conventional one.
Applications:Widely used at the top of buildings, facades, urban landmark buildings, municipal building,etc.
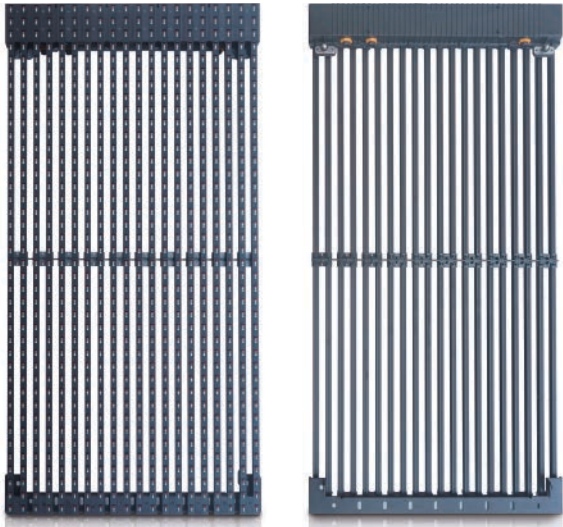
❯ Fanless design,noise free

❯ High efficiency

❯ Good heat dissipation

❯ High brightness

❯ Ultra-light design

❯ Easy installation and easy maintenance
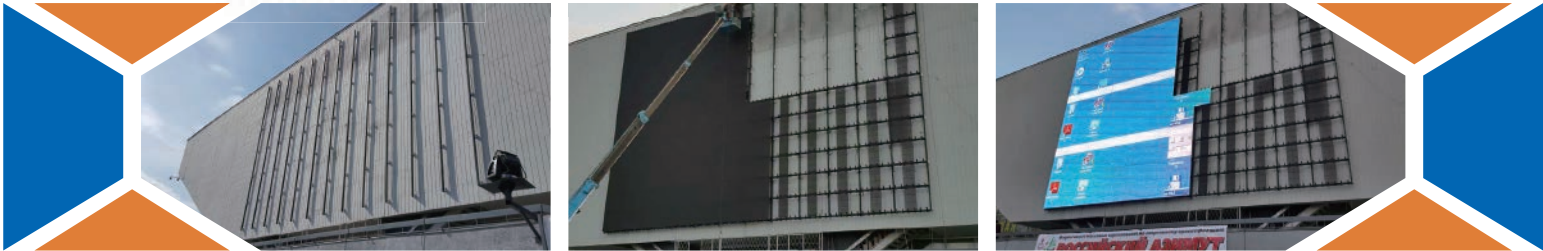
❯ PARAMETERS

Model	P16-16	P16-33	P25-25	P33-33
Pixel composition	1R1G1B	1R1G1B	1R1G1B	2R2G2B
LED type	DIP346	DIP346	DIP346	DIP346
Pixel density(dots/m²)	3600	1800	1600	900
Brightness（cd/m²)	≥8000	≥7000	≥7000	≥7000
Power max./avg.(W/m²)	480/200	530/185	480/185	530/185
Transparency rate (%)	45	70	65	68
Minimum view distance(m)	16	25	25	33
LED cabinet size (mm)	500×1000	500×1000	500×1000/ 500×1500	500×1000
LED cabinet weight (kg/pc)	7.5	7	7/9.5	7
Fixing structure weight (kg/m²)	5			
Refresh rate (Hz)	1920-3840			
Working temperature（℃）	-20 ~ +60			
Working humidity (RH)	10～90			
Ingress protection(front & back)	IP65			
Ventilation and heat dissipation	Natural ventilation			
Cleaning method	High-pressure water jet			
Shell material	Aluminium alloy			
Control system	Integration			
Maintenance mode	Front			
Life time (hrs)	100,000			

❯ SUCCESSFUL CASES

REGULAR INDOOR LED DISPLAY

Apexls' regular indoor LED display ranges from P2 to P6.It has high design flexibility and can be customized in different cabinet sizes ,different cabinet shapes(flat,curved,ect.) and different cabinet type(with doors or without doors). Front service and rear service are available.
Application areas: Widely used in conference rooms, hotels, shopping malls, monitoring rooms, stage backgrounds, studios and so on.

❯ High gray scale

❯ High refresh rate

❯ Various cabinet size and cabinet shapes optional

❯ Seamless splicing, high flatness

❯ PARAMETERS

Model	P2	P2.5	P2.6	P2.9	P3	P3.9	P4	P5	P6
Pixel pitch(mm)	2	2.5	2.604	2.976	3	3.906	4	5	6
Pixel composition	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B	1R1G1B
LED type	SMD1515	SMD2121	SMD2121	SMD2121	SMD2121	SMD2121	SMD2121	SMD2121	SMD2121
Pixel density(dots/m²)	250,000	160,000	147,456	112,896	111,556	65,536	62,500	40,000	27,777
Cabinet size(mm)	512x512	960x960	500x500	500x500	960x960	500x500	1,024x768	960x960	960x960
Cabinet resolution(dots)	256x256	384x384	192x192	168x168	320x320	128x128	256x192	192x192	160x160
Module size(mm)	256x128	240x240	250x250	250x250	240x240	250x250	256x128	160x160	192x192
Module resolution(dots)	128x64	96x96	96x96	84x84	80x80	64x64	64x32	32x32	32x32
Cabinet material	Iron / aluminum								
Cabinet weight(kg/m²)	Around 40-45								
Brightness(cd/m²)	800-1,200								
Power max./avg.(W/m²)	680/230	680/230	600/175	600/175	680/230	600/175	620/210	620/210	620/210
Refresh rate(Hz)	1920~3840								
Gray scale(bit)	12 ~ 16								
Input voltage	AC100~240V/50~60Hz								
Working temperature	-20℃~60℃								
Installation/maintenance	Front or rear								
Life span	100,000 hours								
Mtbf	>10,000 hours								
Certification	CE ETL FCC RoHS								

❯ SUCCESSFUL CASES

LED OUTDOOR DISPLAY
500x500mm series

Apexls LED outdoor display conventional series is an outdoor surface mount LED high-definition display, which belongs to the standardized series of Kangshuozhan. The module kit is designed with a customized 45° inclination angle, which can be spliced at right angles and arcs to enhance visual effects.
AApplication areas: Widely used in outdoor advertising such as outdoor squares, buildings, airports, railway stations, bus stations, high-speed railway stations and so on.

❯ Precise CNC Aluminum cabinet
❯ Good heat dissipation
❯ Multilocks positioning, seamless connection
❯ Fast lock design, quick installation, time and labor saving
❯ Aviation plugs design, easy cable connection
❯ Die casting Aluminem design , 40% lighter than traditional cabinet
❯ High reliability and stablity without image delay
❯ High contrast and good color uniformity

❯ PARAMETERS

Model	P2.604	P2.97	P3.91
Pixel pitch(mm)	2.604	2.97	3.91
Pixel composition	1R1G1B	1R1G1B	1R1G1B
LED type	SMD1415	SMD1415	SMD1921
Pixel density(dots/m²)	147,456	112,896	65,536
Cabinet size(mm)	500X500	500X500	500X500
Cabinet resolution(dots)	192x192	168x168	128x128
Module size(mm)	250x250	250x250	250x250
Module resolution(dots)	96x96	84x84	64x64
Cabinet material	Die-casting aluminum		
Cabinet weight(kg)	8.5	8.5	8.5
Brightness(cd/m²)	4,000	5,000	5,000
Power max./avg.(W/m²)	1150/450	1000/450	875/300
Refresh rate(Hz)	1920~3840		
Gray scale(bit)	12 ~ 16		
Input voltage	AC100~240V/50~60Hz		
Working temperature	-30℃~60℃		
Installation/maintenance	Front / Rear		
Life span	100,000 hours		
Mtbf	>10,000 hours		
Certification	CE ETL FCC RoHS		

❯ SUCCESSFUL CASES

OUTDOOR SMD SERIES

IP66 water proof degree, front service series, adopted SMD technology, standard 320mm module size, high reliability, widely used for outdoor permanent installation.
Application: outdoor advertising bill board, signage.
Pixel pitch: P6.6 / P8 /10

> Front service
> Super slim and light weight
> various cabinet size available
> IP67 water proof degree
> high reliability
> 5000-10000nits brightness available

> PARAMETERS

Model	P6.67	P8	P10
Pixel pitch(mm)	6.67	8	10
Pixel composition	1R1G1B	1R1G1B	1R1G1B
LED Type	SMD2727	SMD2727	SMD2727
Pixel density(dots/m²)	22,500	15,625	10,000
Cabinet size(mm)	960x960	960x960	960x960
Cabinet resolution(dots)	144x144	120x120	96x96
Module size(mm)	320x320	320x320	320x320
Module resolution(dots)	48x48	40x40	32x32
Cabinet material	Iron / aluminum		
Cabinet weight(kg)	around 35 kg/m² (aluminum)		
Brightness(cd/m²)	6,000-10,000	6,000-10,000	6,000-10,000
Power max./avg.(W/m²)	800/300	800/300	850/300
Refresh rate(Hz)	1920~3840		
Gray scale(bit)	12 ~ 16		
Input voltage	AC100~240V/50~60Hz		
Working temperature	-30℃~60℃		
Installation/maintenance	Front / Rear		
Life span	100,000 hours		
Mtbf	>10,000 hours		
Certification	CE ETL FCC RoHS		

> SUCCESSFUL CASES

OUTDOOR DIP SERIES

Support both front and rear service, adopted traditional DIP technology, standard 240mm module size, high reliability, high brightness, high performance, widely used for outdoor permanent installation.

Application: outdoor advertising bill board, signage.

Pixel pitch: P10 / P12 /15 / P16

❯ Both Front service & rear service

❯ better cooling performance with fans

❯ various cabinet size available

❯ IP65 water proof degree

❯ high reliability, Long life

❯ 7000-13000nits brightness available

❯ PARAMETERS

Model	240x240mm series			
	P10	P12	P15	P16
Pixel pitch(mm)	10	12	15	16
Pixel composition	1R1G1B	1R1G1B	1R1G1B	1R1G1B
LED type	DIP 346	DIP 346	DIP 346	DIP 346
Pixel density(dots/m²)	10,000	6,944	4,444	3,906
Cabinet size(mm)	960x960	960x960	960x960	960x960
Cabinet resolution(dots)	96x96	80x80	64x64	60x60
Module size(mm)	240X240	240X240	240X240	240X240
Module resolution(dots)	24x24	20x20	16x16	15x15
Cabinet material	Iron / aluminum			
Cabinet weight(kg)	around 50-60 kg/m² (Iron) ; around 35-40 kg/m² (aluminum)			
Brightness(cd/c)	7,000-10,000	7,000-10,000	7,000-10,000	7,000-10,000
Power max./avg.(W/m²)	550/200	550/200	550/200	550/200
Refresh rate(Hz)	1920~3840			
Gray scale(bit)	12 ~ 16			
Input voltage	AC100~240V/50~60Hz			
Working temperature	-30℃~60℃			
Installation/maintenance	Front/ rear			
Life span	100,000 hours			
Mtbf	>10,000 hours			
Certification	CE ETL FCC RoHS			

❯ SUCCESSFUL CASES

FLOOR LED DISPLAY

Specially used for Stage, restaurant, hotel, TV studio. Etc, can be with interactive and without, IP 65 waterproof, antiskid design, with video feed, make the floor with a sense of technology and full of attractions.

❯ Load capacity up to 5 tons

❯ IP65 water proof

❯ Antiskid and wear-resistant design

❯ Quiet cooling design

❯ Interactive chip built-in

❯ Front service

❯ PARAMETERS

Model	Indoor			Outdoor		
	P2.97	P3.91	P5.2	P6.25	P7.8	P8.9
LED type	SMD1415	SMD1921	SMD1921	SMD2727	SMD2727	SMD3535
Pixel density(dots/m²)	112,896	65,536	36,864	25,600	16,384	12,544
Module size(mm)	250x250	250x250	250x250	250x250	250x250	250x250
Module pixels(dots)	84x84	64x64	48x48	40x40	32x32	28x28
Cabinet size(mm)	500x500 / 500x1000			500x500 / 500x1000		
Weight/cabinet(kg)	10.5kgs die-casting aluminum / 22kgs steel			13.5kgs / 26.9kgs		
Brightness(cd/m²)	1500-1800	1500-1800	1500-1800	Indoor 1800/ outdoor 4500		
Power max./avg.(W/㎡)	800/400	800/400	800/400	1200/600	1200/600	1200/600
Scan mode	1/14	1/16	1/6	1/10	1/4	1/4
Refresh rate (Hz)	1920-3840			1920-3840		
Working humidity (RH)	10%-90% RH			10%-90% RH		
Working temperature(℃)	-20℃~+65℃			-20℃~+65℃		
IP grade(front & back)	front IP65, back IP32			front IP45, back IP67		
Cleaning method	Non-slip, moisture-proof, dust-proof, anti-corrosion, anti-static, anti-lightning, and has the functions of over-current, short-circuit, over-voltage, and under-voltage protection			Non-slip, moisture-proof, dust-proof, anti-corrosion, anti-static, anti-lightning, and has the functions of over-current, short-circuit, over-voltage, and under-voltage protection		
Cabinet material	Die-cast aluminum / steel cabinet			steel		

❯ SUCCESSFUL CASES

RENTAL LED DISPLAY

Rental LED display include indoor and outdoor series. The installation is quick and the power supply, HUB board, receiving card and modules are connected, which can be quickly removed and inserted. It is necessary for renting LED display, including, backup power supply, anti-collision LED boards, and more.

➤ Power backup design

➤ Continuous signal

➤ Compatible locking design

➤ Latest technology of anti-collision

➤ Hoisting installation

➤ Stacking installation

➤ Fixed fittings

➤ PARAMETERS

Model	Indoor			Outdoor		
	P2.6	P2.97	P3.91	P2.97T	P3.91T	P4.81T
Pixel pitch(mm)	2.6	2.976	3.906	2.976	3.906	4.807
LED type	SMD1515	SMD1515	SMD2121	SMD1515	SMD1921	SMD1921
Pixel density(dots/m²)	147,456	112,896	65,536	112,896	65,536	43,264
Module size(mm)	250x250	250x250	250x250	250x250	250x250	250x250
Module resolution(dots)	96x96	84x84	64x64	84x84	64x64	52x52
Cabinet size(mm)	500x500x85 / 500x1000x85			500x500x85 / 500x1000x85		
Weight/cabinet(kg)	8.5 / 13.2	8.5 / 13.2	8.5 / 13.2	8.6/13.6	8.6/13.6	8.6/13.6
Refresh rate(Hz)	3840	3840	3840	3840	3840	3840
Brightness(nits)	800-1200	1000-1200	1000-1200	4000-4500	4500-5000	3500-4000
Power max./avg.(W/m²)	600/175	600/175	600/175	800/230	800/230	800/230
Scan mode	1/32	1/28	1/16	1/21	1/16	1/13
IP grade	IP30	IP30	IP30	IP65	IP65	IP65
Inner arc	0° / 2.5°/ 5°			0° / 2.5° / 5°		
Outer arc	0° / -2.5°/ -5°			0° / -2.5° / -5°		
Working humidity	10%-90% RH			10%-90% RH		
Working temperature	-40℃~+60℃			-40℃~+60℃		
Installation methods	Stacking/Floor/Hoisting/Arc/Special-shaped/Right angle			Stacking/Floor/Hoisting/Arc/Special-shaped/Right angle		

➤ SUCCESSFUL CASES

Case show

⌄

Beijing Winter Olympics Games 2022
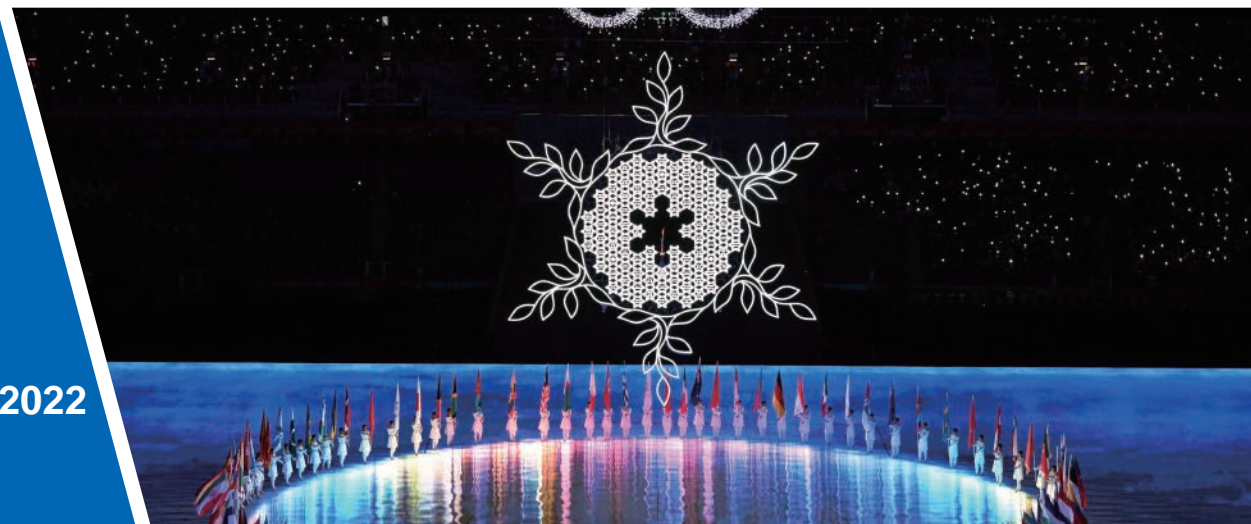
"Snowflakes and Olive Branches" in Beijing Winter Olympics 2022
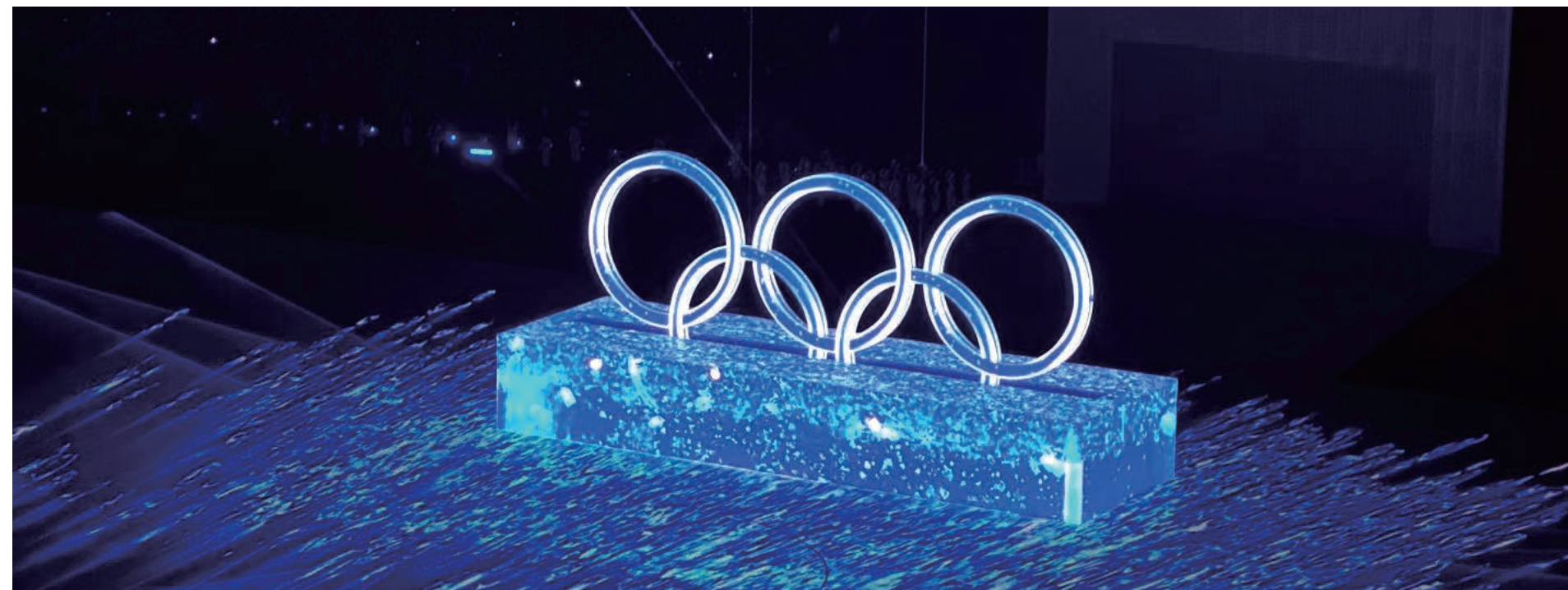
"Five Rings " in Beijing Winter Olympics 2022
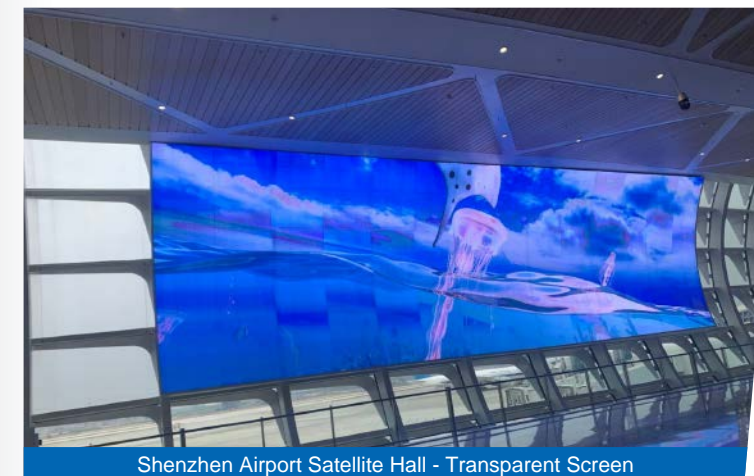
Shenzhen Airport Satellite Hall - Transparent Screen

Shenzhen Airport Satellite Hall

Shenzhen Airport Satellite Hall - naked eye 3D special-shaped screen

Shenzhen Airport Terminal 3 - Indoor full color screen
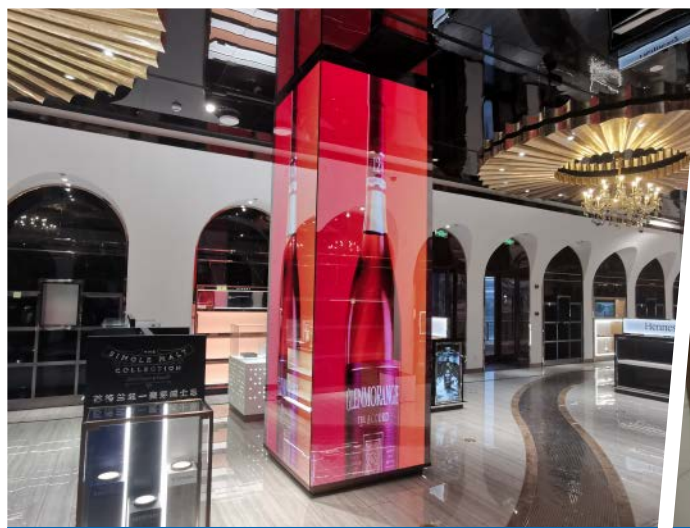

Shenzhen Airport Satellite Hall - Indoor creative screen

Shenzhen Duty-free
Haikou Mission Hills Duty-free City

Haikou Mission Hills Duty Free City - Cylindrical Screen

Shenzhen Duty Free·Haikou Mission Hills Duty Free City - Circular screen

Haikou Mission Hills Duty Free City - Square column screen

Shenzhen Duty Free·Haikou Mission Hills Duty Free City - Window Screen

Shanghai CITIC Square

Shanghai CITIC Square - Atrium creative screen

Shanghai CITIC Square - LED transparent screen
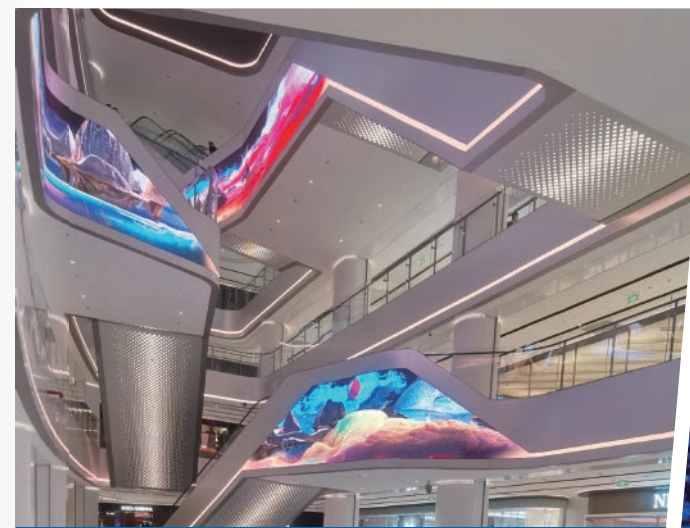
Shanghai CITIC Square - Atrium atmosphere screen

Shanghai CITIC Square - Indoor full-color east entrance screen

Hotel Lisboa, Macau - Flexible screen

Hotel Lisboa, Macau

Hotel Lisboa, Macau - Creative ceiling screen

Dongguan Dongshen Water Supply

Hotel Lisboa, Macau - Flexible screen

Chongqing Rural Commercial Bank - Indoor full-color P2.5 flexible module
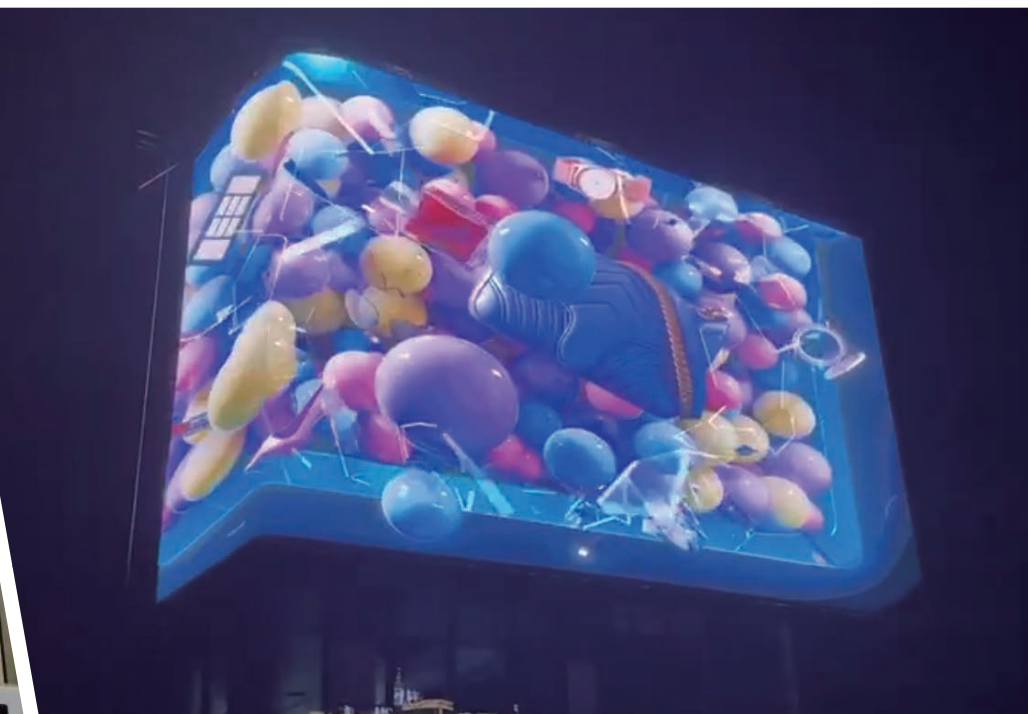
Zhuhai Xinyuewan Building - Outdoor naked eye 3D corner screen

Shenzhen Inovance Technology Headquarters Building - Indoor transparent LED display

Henan Wangfujing Oleai Plain Town-Double-sided curved screen11.98m²
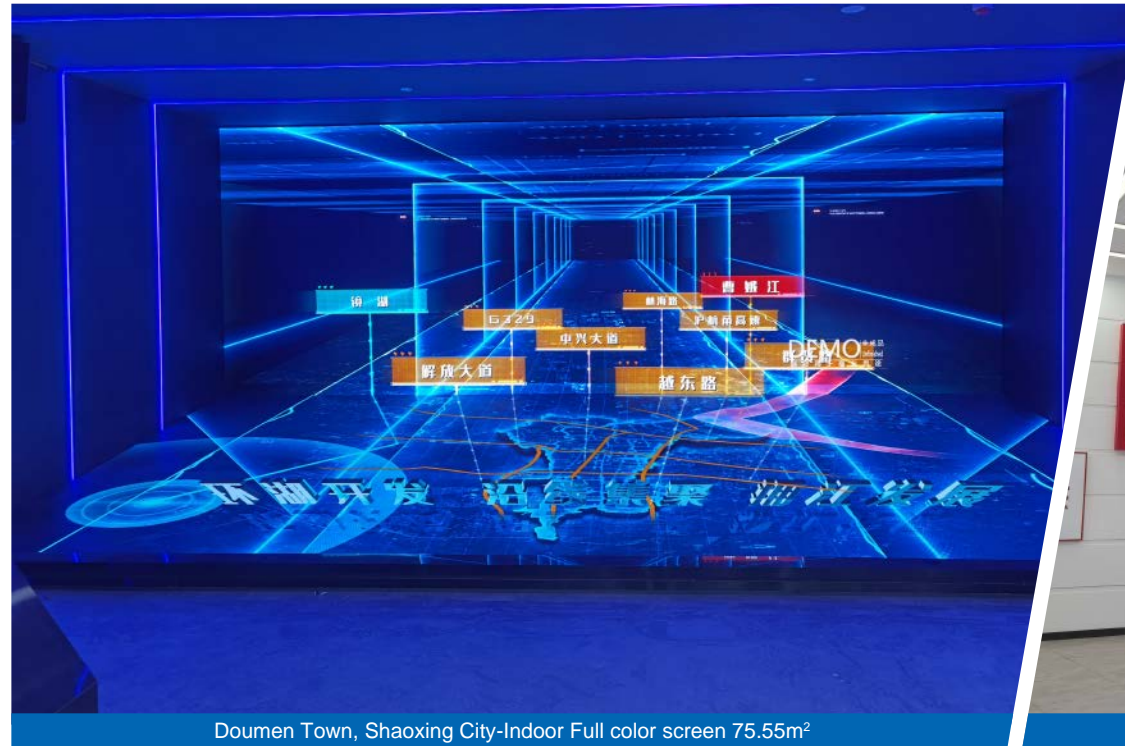
Doumen Town, Shaoxing City-Indoor Full color screen 75.55m²

Sichuan Guang'an Pioneer Museum-creative screen

Sanya Red Girl Scout Theater-Outdoor full color screen 172.8m²

Sanya Yacheng South Fan Silicon Valley Science and Technology City, -Indoor Full color LED screen

Shanghai Chunyi- Cylidrical screen 4.1472m²

Nanshan Shenzhen Prince Square,Fine-pixel LED screen 10.4

Guangzhou Ultra HD Industry Development Conference-Outdoor full color screen
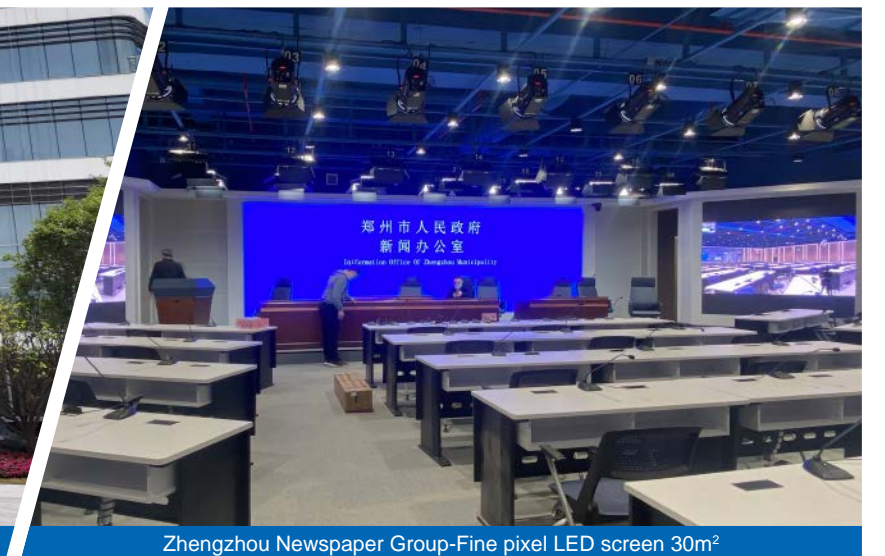
Zhengzhou Newspaper Group-Fine pixel LED screen 30m²

Jiangmen Museum

Customized Special-shaped hexagonal screen 8.4m-Jiangmen Museum,Guangdong

Indoor full color screen 114.0192m²-Jiangmen Museum,Guangdong
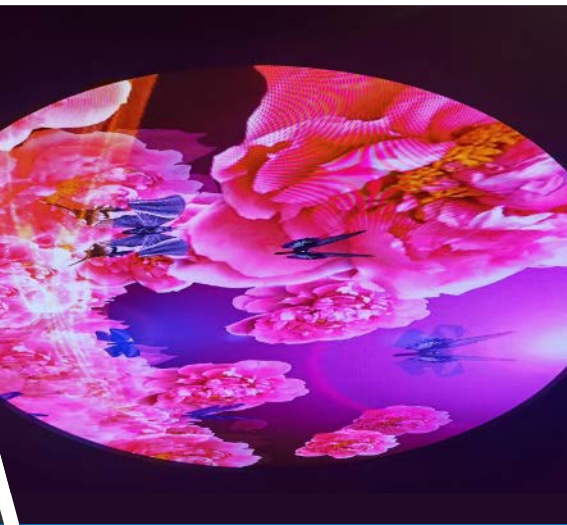
Indoor Ceiling Circular Screen 53.48m²-Jiangmen Museum,Guangdong

Customized Special-shaped screen-Jiangmen Museum,Guangdong

Foshan Wangfujing Ziwei Port

Mountain Series T-Shaped flexible led screen-Foshan,Guangdong

Flower Series Sphere led screen diameter 6m-Foshan,Guangdong

Interactive led floor tile display Diameter 12m-Foshan,Guangdong

Customized double-sided screen Water Series 730m²-Foshan,Guangdong

Outdoor led screen 3D curved screen-- Xindaxin Shopping Center,Guangzhou

Outdoor led screen 3D Screen 860.544m²-Sanya Duty Free Shopping Center ,Hailv Group ,Hainan

Creative led tree-shaped Trumpet screen 652.4m²-Nanjing Dragon Valley Theme Park

Dome led screen Diameter 3m- Mingmo Video Company,-Nanjing

Sphere LED display Diameter 2m-Science and Technology City ,Qidi, Nanning ,Guangxi

Indoor curved led screen 104m²-Plaza Hainan Heart,Xinbu Island,Haikou

Outdoor full color led display 105.73m²-Grand Shopping Center,Chengdu

Outdoor full color led display 48.22m²-Outlets ,Wangfujing shopping mall,Henan
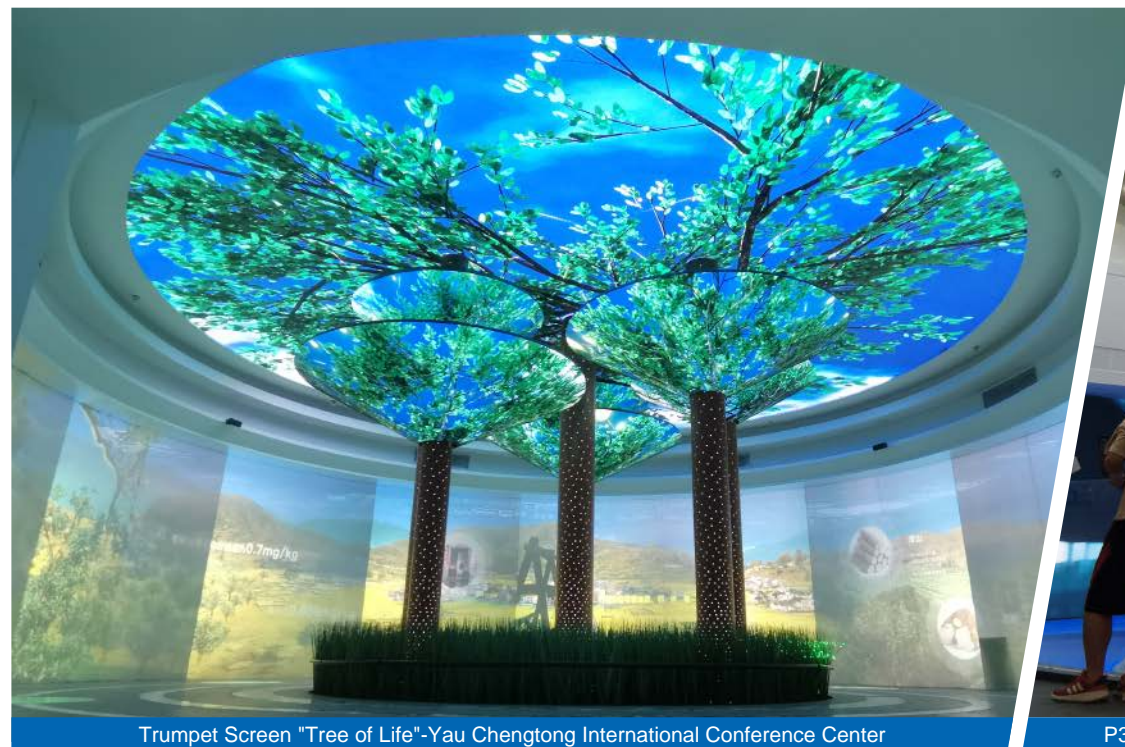
Trumpet Screen "Tree of Life"-Yau Chengtong International Conference Center
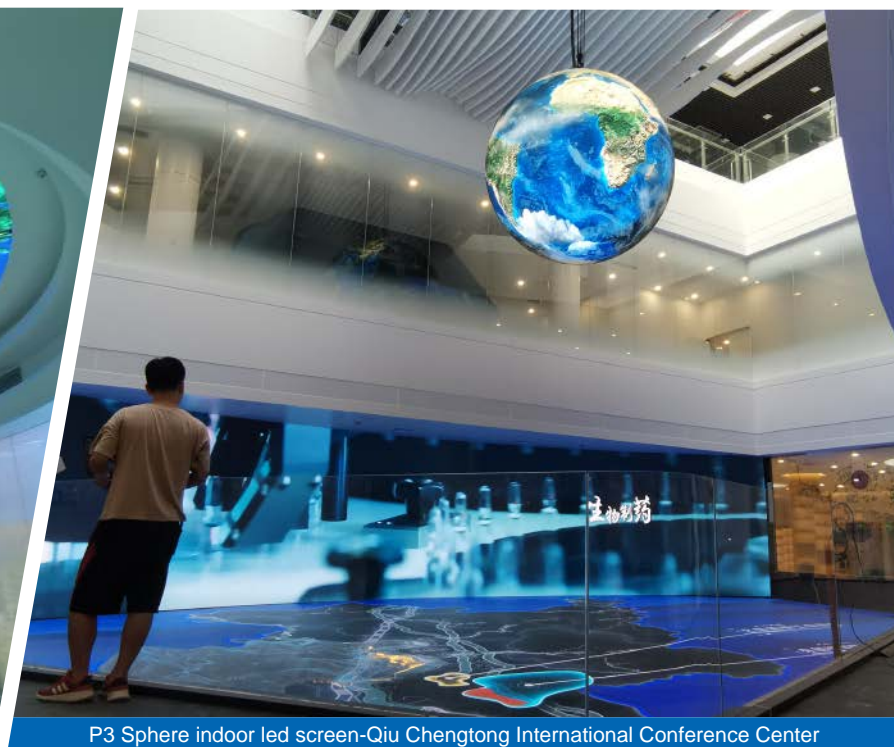
P3 Sphere indoor led screen-Qiu Chengtong International Conference Center

Sphere indoor led screen diameter 2.2m-Science and Technology Museum, Heze, Shanxian,Shandong

Outdoor P3 Customized Screen-FudiYunji Marketing Center,kunming,Yunan

Customized Special-shaped-Shengli Petroleum Science Technology Museum, -Dongyin, Shandong

Sphere Led display diameter 1.6m- Southern Airlines Company,Guangzhou

Sphere Led display diameter 1.2m - Sea Rice Development Research Center -Qindao,Shandong

Flexible Screen "Mobius Strip"- Science Technology Museum, Haimen,Jiangsu
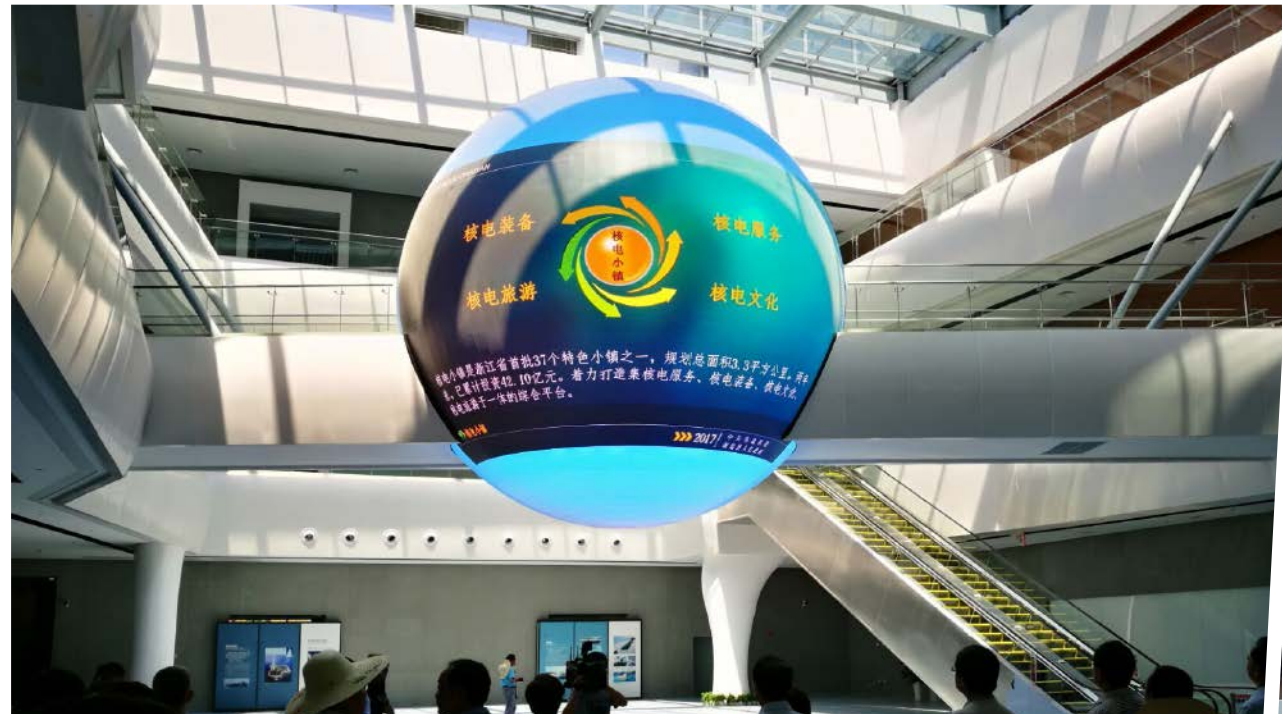
Qinshan Nuclear Power Station - Diameter 8m spherical screen

Jinan Wanhong Square - Large creative elevator LED screens

Dome led screen diameter 6m-Satellite TV，Zhejiang

Ceiling curtain display 944.06m²-Sanya, Hainan

Sphere Led display diameter 16.3m-Planetarium Museum,Moscow,Russian

Indoor P1.5825mm Fine-pitch LED Display-Shenzhen bay, China

Jingang Building, Xixiang, ShenzhenP1.899 Small Spacing Display Screen

Shenzhen Energy Building 30th Floor - COB Small Spacing 20.38m²

3D Indoor folding screen P2.5-Haikou,Hainan

LOGO screen 140m²-STUDIO CITY Hotel ,Macau

Indoor Flexible LED screen-Daxin mall, Zhongshan

Tangshan Science and Technology Museum 14m Spherical Screen

Outdoor sphere led screen diameter 6m-Olympic Sports Center,Jining, Shandong
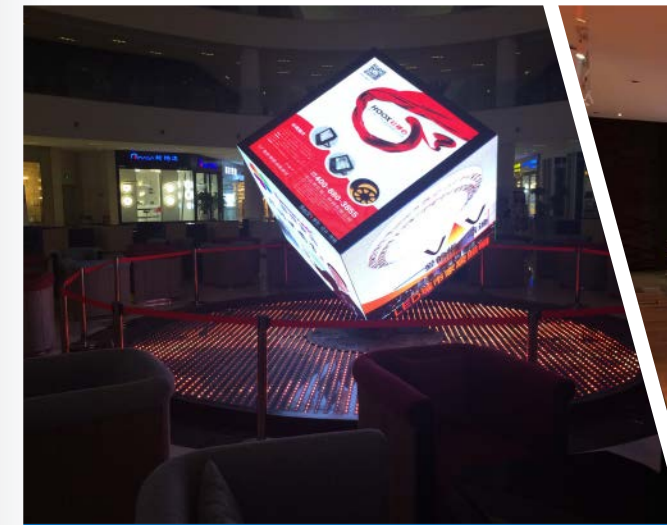
Creative Cube Screen-Starlight Alliance lighting City,Zhongshan
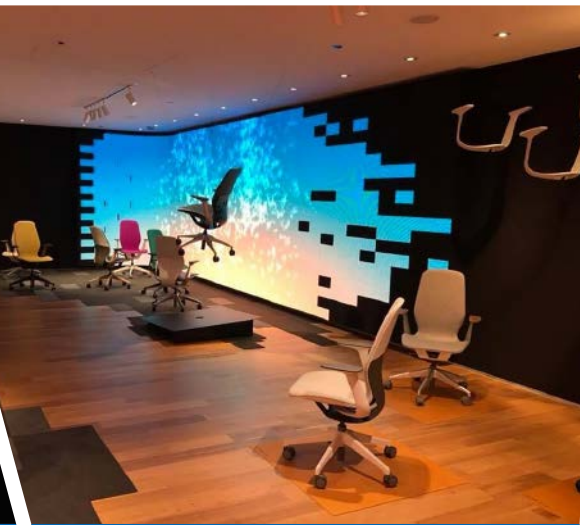
Creative Flexible led Screen-Chicago, USA

Guangzhou Dongpu Merrill Transparent Screen

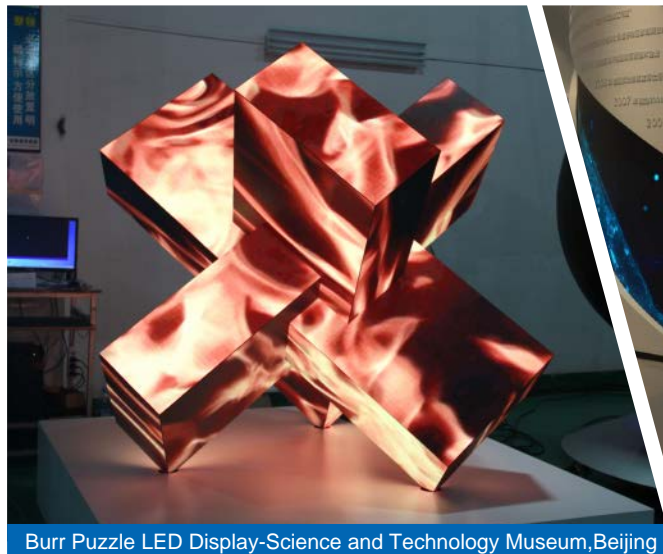Jiangshu Haimen Science Museum P4 Creative LED cloud screen

Outdoor Sphere LED display Diameter 2m-A hotel, Indonesia

Burr Puzzle LED Display-Science and Technology Museum,Beijing

Indoor Flexible Screen-Liby Group,Guangzhou

Outdoor curved LED display 214m²-Vanke Plaza,Dongguan

Arched rainbow Flexible Screen 96m²"Dancing with the Stars"Dragon TV，Shanghai

Sphere LED display Diameter 7.2 m-Luomeng Global City，Ningbo，Zhejiang

Indoor full color inner arc curved LED display -Midea Group

Sphere LED display Diameter 2m-Shopping mall，Japanese

LED Telescopic ball Diameter 2.5m-A film and television culture mall ,Hollywood, USA

LED Telescopic ball Diameter 4m- Science and Technology Museum,Qiannan,Guizhou

Malaysia - Sky Screen 430m²

Outdoor LED Curtain Display 700m²-Moscow, Russia

Right Angle Inner arc curved LED display P2.5-Seoul Kia Motors,South Korea

Pre-sale service

1. 24-hour global customer service hotline, free to provide technical support to customers.
2.Apexls will strictly evaluate the client's project requirement and Provide the corresponding solution.
3.Apexls will provide free- design frame including flat effects and flash animation effects frame

In-sale service

1. Apexls will provide free installation drawings for For large projects;
2. Apexls will guide Clients the installation and commissioning for large-scale projects.
3. According to your needs, Apexls also offer the service of On-site installation and commissioning ,we call it the project of "key back to clients".

After-sales service

1.The hot line is 24hours on line of Sales and after-sales service people.
2.Fast Response:Customer Complaint Phone No.will be pick up in 30 minutes ; Apexls will solve the general question in 24hours and the big problem in 72 hours.
3.Free Maintenance:All of series of Apexls Productions are in free maintenance service ; Apexls will keep the same spec.for spare parts and special tools of and batch for clients the orders.Clients just need to pay the corresponding costs and expenses after the warranty period expires.
4.Value-added services: During warranty period, Apexls will provide free guide tech.guide classes door-to-door by annual , free system upgrade , equipment maintenance, personnel training and major activities of the remote technical guidance or on-site guidance.

Our service

Pre-sale service

In-sale service

After-sale service