



深圳中润光电技术股份有限公司

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深圳中润光电技术股份有限公司 Shenzhen Zhongrun Optoelectronics Technology Co., Ltd.

ZHONGRUN OPTOELECTRONICS

COMPANY PROFILE

Shenzhen Zhongrun Optoelectronics Technology Co., Ltd. with registered capital of 106 million RMB, as a China AAA enterprise, has been committed to the R&D, manufacturing, marketing of High-end LED display products since its establishment in 2004. Our LED products are widely used in outdoor advertising, entertainment activities, stadium, stage & rental, architectural art and museum. By our core product the LED full color display system, we are devoted to providing best overall solution integrated with design, manufacture, installation & maintenance which can effectively reduce overall customer cost.

ZHONGRUN takes quality as our core goal. Including the raw material procurement, production, test & installation, each step is strictly adhered to the requirement of ISO9001 and ISO14001. Due to scientific management & excellence pursuit, we hold 6 inclusive patents and our products had passed ROHS, CCC, CE, EMC, FCC, ETL, UL, IP67 water & dust proof test, anti-glare test, high and low temperature test, heavy metal test held by the professional third-party organization to ensure each product is ensured to be stable and reliable.

STEADY PROGRESS WITH THE TIMES

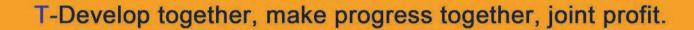
Divided as domestic department and oversea department, ZHONGRUN's marketing system has developed a powerful "customer-centric" service execution team focusing on sales, marketing, business & after-sales.

ZHONGRUN has established a comprehensive customer service system: design detailed technical scheme before sale, provide display installation guidance and products training, offer after sales warranty and customer care. We are committed to providing customers with one-year warranty, life-time maintenance, free installation training and regular inspection of products.

Our core value is "team", "win-win", "passion", "humility" and "feelings". We are striving to become the most loyal partner of our customers. Our mission is to be the honest leader of LED industry and display a glorious colorful world.



EAM



E-Each individual's strengths are maximized, the team's fascination can be maximized.

A-Complete tasks, achieve goals, fulfill dreams.

M-Win more customers, more awards, and greater benefits.

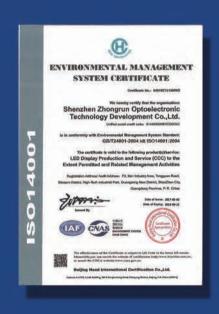






Certificate of Honor

ZHONGRUN has been focusing on trophy substance rather than flashy appearance!















Z HONG RUN

LED Display INTEGRATED
Solution Provider

Patent















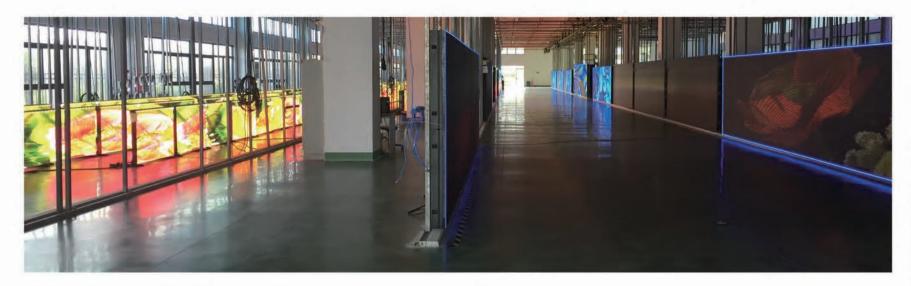


Workshop





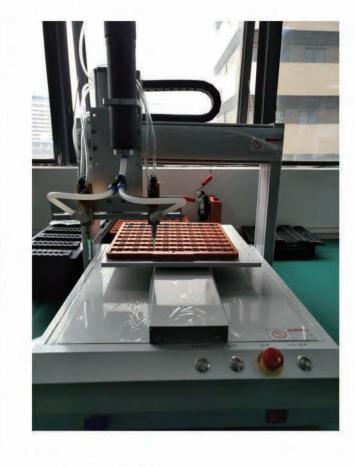




















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Soft Mesh Screen Product For Building Surface

- Every single led dot is working independent
- Easy installation & maintenance, labor cost saving
- Irregular shape available, applied to any scene
- Customized pixel pitch >30-1000mm, flexible structure
- Ip66, suitable for outdoor permanently
- The main style matching with architecture, looking nature



Creative Mesh Screen EV-4Dot

EV-4DOT is suitable for big building facade & glass wall when lighting all day, because of flexible, light weight, easy to install and maintain, 70% lower cost in structure & labor than normal led display. With the advantages of good flexibility, high transpareancy, high brightness and waterproof etc., mesh screen can be customized into many different shapes to display various video programs conveniently, meanwhile, it can show various lighting changing effects designed by professional designers to show the infinite artistic charm.



EV-4Dot Feature

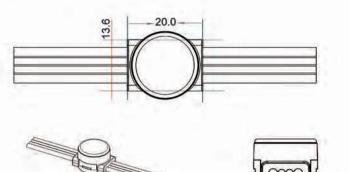
Features

- Nationstar SMD2727
- IP 66
- Pixel pitch from 30mm-1000mm
- High brightness up to 6500 cd/sqm, suitable for any outdoor application
- 90% high transparency, fully meet the application requirements of outdoor glass curtain wall
- Flexible, can do all kinds of artistic design, such as: spherical, Christmas tree and so on

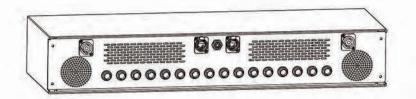




Physical Dimensions



Control System



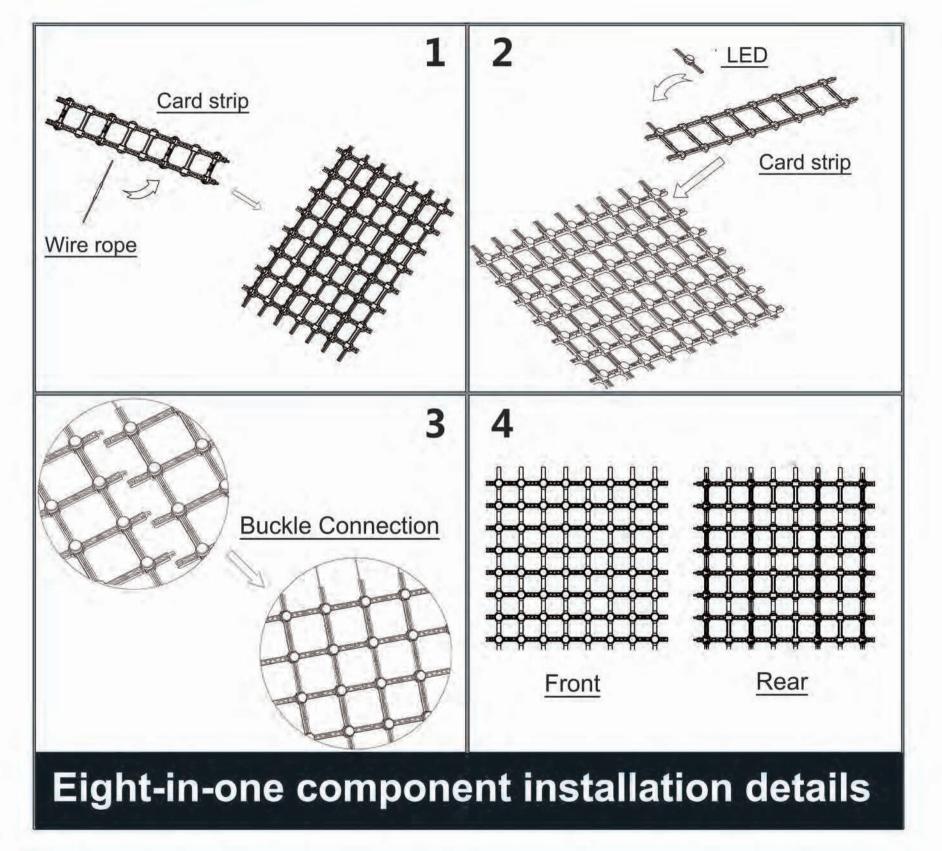
Sub-controller with Nova/Mooncell/Colorlight system and customized PSU, apply to irregular screen, show better pictures and videos perfectly.

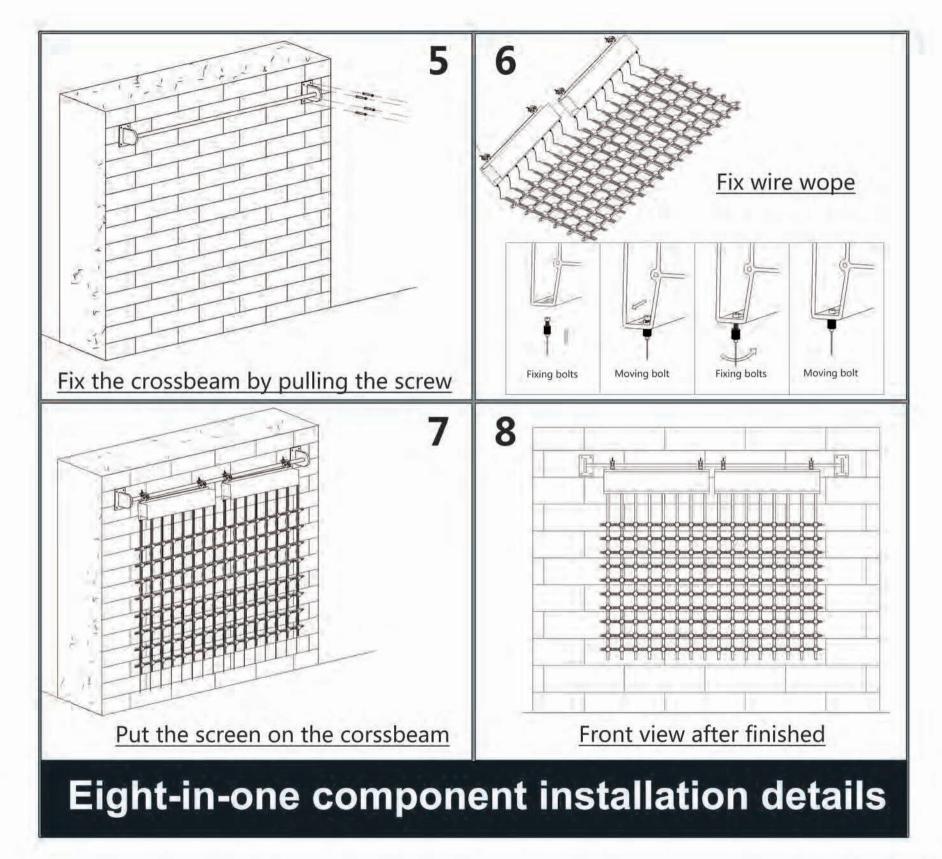
EV-4Dot Specification

Cross Section

Part Number	EV-4Dot-30	EV-4Dot-40	EV-4Dot-55	EV-4Dot-80	EV-4Dot-100
Pixel Pitch	30mm	40mm	55mm	80mm	100mm
Pixel Density	1111dot/m²	625dot/m²	330dot/m²	156dot/m²	100dot/m²
Brightness	11000CD/m ²	6250CD/m ²	3300CD/m ²	1560CD/m²	1000CD/m ²
Max.Power Consumption	999W/m²	562W/m²	297W/m²	140W/m²	90W/m²
Ave.Power Consumption	333W/m²	187W/m²	99W/m²	47W/m²	30W/m²
DOT Size		*	L20 x W18 x H15.2(mn	n) D18mm	i di
DOT Weight			<6g /Pixel		
LED Type	RGB 3IN1 SMD2727*4				
Viewing Angle	120°(H)/120°(V)				
Gray Scale	12bit				
Display Scale	68.7 Bilion				
Refresh Rate	≥1920Hz				
Control System	PC based dynamic capture & mapping				
Operation Power	AC110~ 240V, 50/60Hz (DC15V)				
Working Environment	Temperature -20℃~+45℃,Humidity10~90% RH				
IP Rating	IP66				
Operating Life	≥100,000hours				
Certificate	CE ROHS FCC				

Installation Diagram







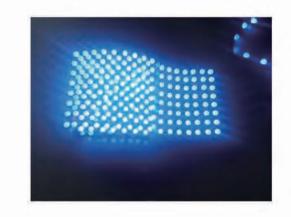


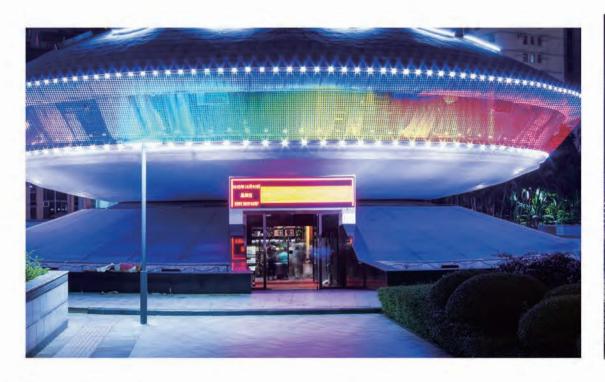
Creative Mesh Screen EV-2Dot

EV-2DOT is a relatively suitable choice under certain conditions, from brightness and economic point of view. It is new generation of transparent led display screen to replace the curtain & led strip display, widely being used in glass wall, building surface, shopping malls, wedding decorations and more other free design application scenarious.

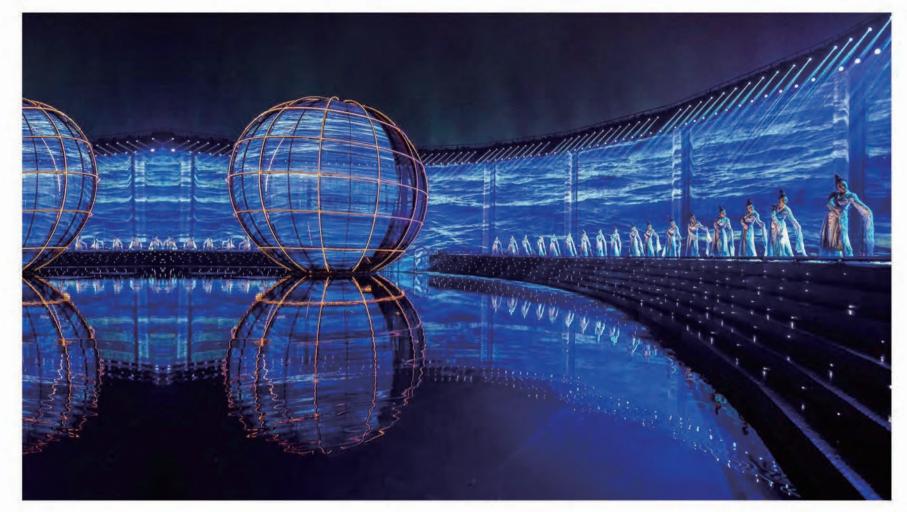
Advantage

- 1. Flexible, various shapes, no limited by application
- 2. Simple design, light weight
- 3. Resistance to high temperature and low temperature
- 4. Fast set-up & removal, suitable for rental & fixed use
- 5. Material can be choosed according to customer's demand
- 6. Nova/Mooncell/Colorlight/Linsn system
- 7. Front Maintenance
- 8. Long signal transmission distance









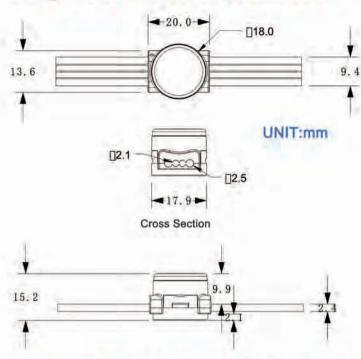
EV-2dot Feature

Features

- Nationstar SMD3535
- IP 66
- Pixel pitch from 30mm-1000mm
- Flexible, can be curved, rolled, folded, even use led strip alone
- Normal screen IC or DMX512
- 90% high transparency, fully meet the application requirements of outdoor glass curtain wall



Physical Dimensions



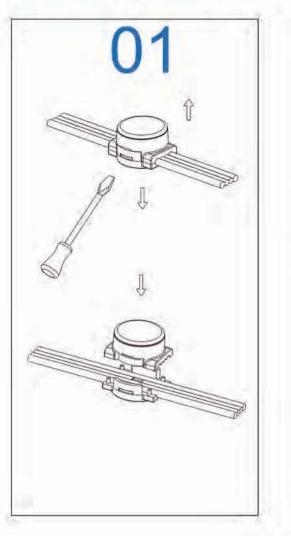
Material

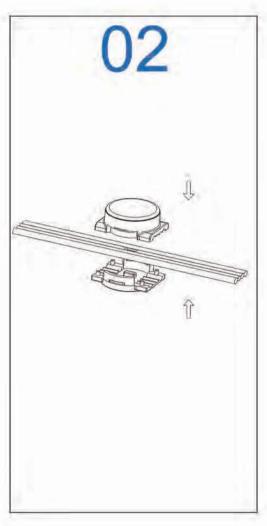


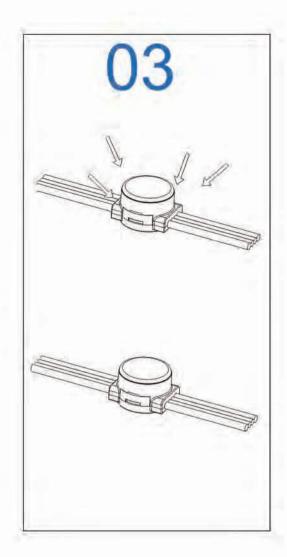
EV-2Dot Specification

Part Number	EV-2Dot-30	EV-2Dot-40	EV-2Dot-55	EV-2Dot-80	EV-2Dot-100	
Pixel Pitch	30mm	40mm	55mm	80mm	100mm	
Pixel Density	1111dot/m²	625dot/m²	330dot/m²	156dot/m²	100dot/m²	
Brightness	6000CD/m²	4000CD/m ²	2000CD/m²	1000CD/m²	650CD/m²	
Max.Power Consumption	666W/m²	375W/m²	200W/m²	94W/m²	60W/m²	
Ave.Power Consumption	222W/m²	125W/m²	67W/m²	32W/m²	20W/m²	
DOT Size			L20 x W18 x H15.2(mm)	D18mm		
DOT Weight	11/1		<6g /Pixel			
LED Type		RGB 3IN1 SMD3535*2				
Viewing Angle		120°(H)/120°(V)				
Gray Scale	- 10 2		12bit			
Display Scale			68.7 Bilion			
Refresh Rate			≥1920Hz			
Control System		_	PC based dynamic captu	re & mapping		
Operation Power	AC110~240V, 50/60Hz (DC12V)					
Working Environment	Temperature -20 ℃~+45℃,Humidity10~90% RH					
IP Rating	IP66					
Operating Life	≥100,000hours					
Certificate		CE ROHS FCC				

Maintenance







Steps to Maintenance

First Step: Separate the upper part and bottom by a tool.

Second Step: Using the new spare parts to replace the orginal parts.

Third Step: Combined the new upper part with the bottom case, then press well.

Advantages

- 1. We could offer the accessories and tools with professional technical support.
- 2. Easy to replace and maintenance
- 3. Save labor maintenance cost

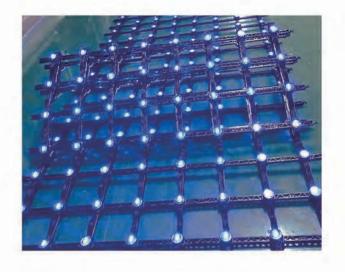




Creative Mesh Screen EV-1Dot

EV-1Dot is a full-color flexible LED screen, the screen is stylish and generous in appearance, highly artistic and creative, can be freely combined into various shapes, such as round, sphere etc., irregular shape.

Application: Museum, art gallery, architecture, stage background, bar canopy, club decoration, and innovative design.



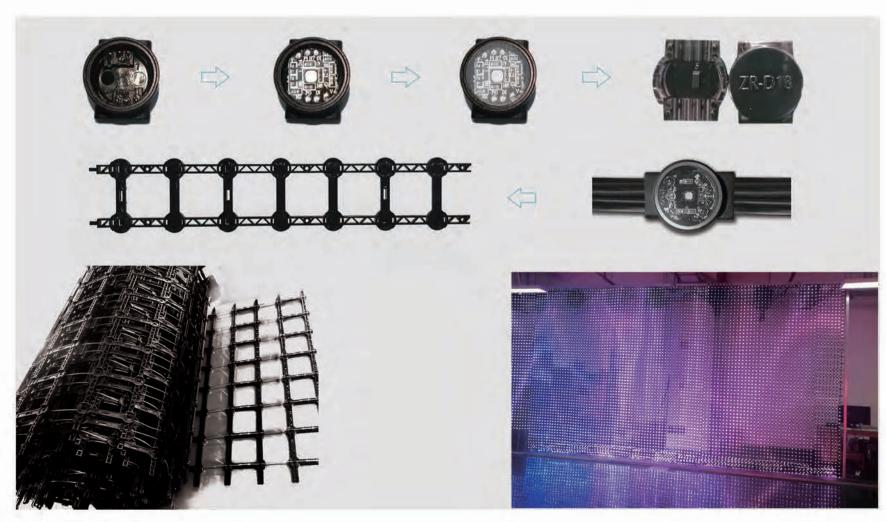


EV-1dot Feature

Features

- Nationstar SMD3535
- ■Easy & Fast Front-Service
- Sub-controller integrated with crossbeam
- Long transmission distance
- The wire rope is hidden behind to improve stability and transparency
- Flexible, can do all kinds of artistic design, such as: spherical, Christmas tree and so on.





Naturally Match Building Shape



Naturally match the building shape via the cost effective labor & materials without complicated steel support structure.

Customized Irregular Shape



No limit for our imagination any more, any shape you want.

Super Cool Display



LED Curtain Display for long distance(>30m)view advertising display.

EV-1Dot Specification

Part Number	EV-1Dot-30	EV-1Dot-40	EV-1Dot-55	EV-1Dot-80	EV-1Dot-100		
Pixel Pitch	30mm	40mm	55mm	80mm	100mm		
Pixel Density	1111dot/m²	625dot/m²	330dot/m²	156dot/m²	100dot/m²		
Brightness	3500CD/m ²	2000CD/m ²	1000CD/m²	500CD/m ²	320CD/m ²		
Max Power Consumption	445W/m²	250W/m²	132W/m²	70W/m²	40W/m²		
Ave.Power Consumption	148W/m²	83W/m²	44W/m²	24W/m²	13W/m²		
DOT Size			L20 x W18 x H15.2(mm)	D18mm	W-		
DOT Weight			<6g /Pixel				
LED Type		RGB 3IN1 SMD3535*1					
Viewing Angle		120°(H)/120°(V)					
Gray Scale		12bit					
Display Scale			68.7 Bilion				
Refresh Rate			≥1920Hz				
Control System			PC based dynamic captu	re & mapping			
Operation Power		AC110~240V, 50/60Hz (DC7.5-12V)					
Working Environment		Temperature -20°C~+45°C,Humidity10~90% RH					
P Rating	IP66						
Operating Life	≥100,000hours						
Certificate	CE ,ROHS ,FCC						

U-DOT

U-dot is a full color soft LED screen, 3D effect with 360° viewing angle, matching interactive system will show you colorful and fantastic world.

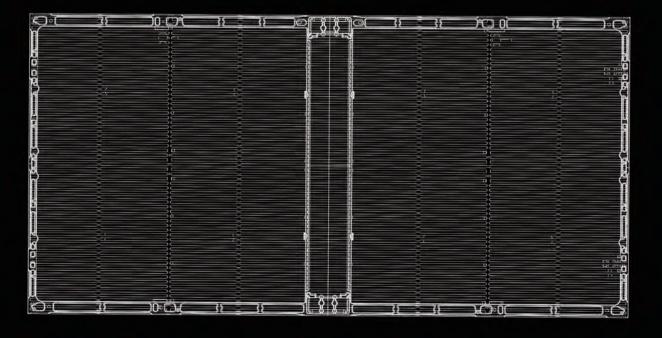


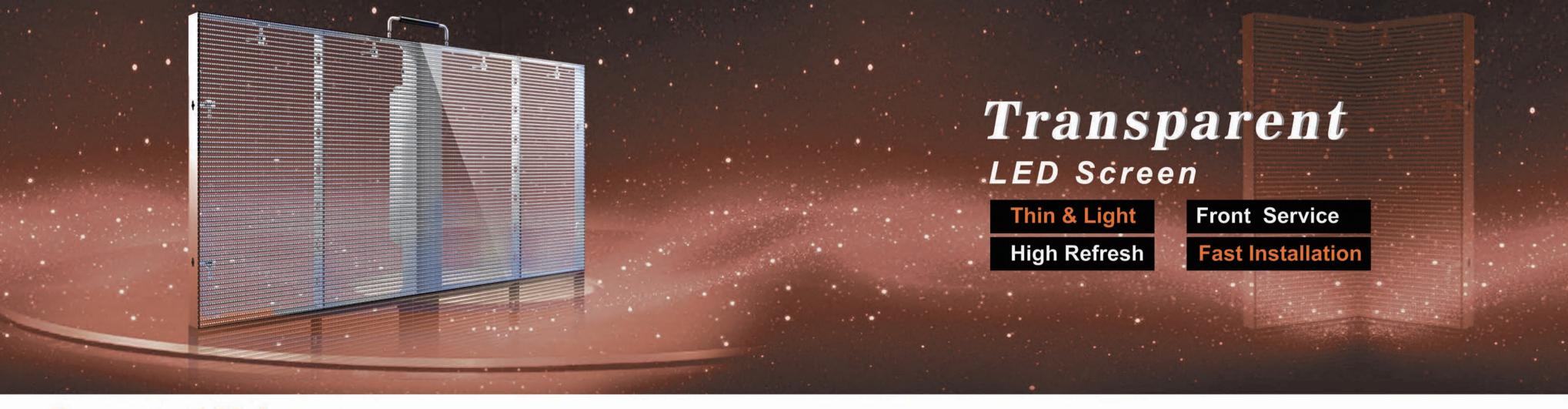
U-DOT Specification

	U-DOT Specification			
Parameter	U-DOT-P50	U-DOT-P100		
Pixel Pitch	50mm	100mm		
Pixel Density	400dot/m²	100dot/m²		
Brightness	1200CD/m ²	300CD/m ²		
Init Power Consumption	0.6W/Dot	0.6W/Dot		
Max.Power Consumption	240W/m²	60W/m²		
ve.Power Consumption	80W/m²	20W/m²		
OOT Size	L39 x W25 x H25 (mm)	L39 x W25 x H25 (mm)		
OOT Weight	<6g /Pixel	6g /Pixel		
ED Type	RGB 3IN1	RGB 3IN1		
/iewing Angle	150°(H)/150°(V)	150°(H)/150°(V)		
Gray Scale		8-12bit		
Display Scale		68.7 Bilion		
Refresh Rate		≥1000Hz		
Control System	synchronous,asynchro	synchronous,asynchronous,slavery controller output(400W/DC7.5V)		
Operation Power		AC110~ 240V, 50/60Hz		
Vorking Environment	Temperature -40℃~+80℃, Humidity10~90% RH			
P Rating	IP66 for led pixels, IP54 for slavery box			
Operating Life	≥100,000hours			



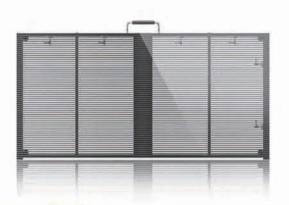
Transparent LED screen

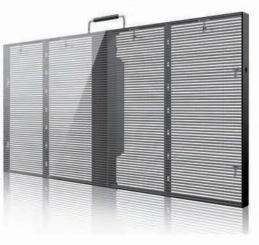




Transparent LED Screen

Transparent screen is a design to reduce the structure's occlusion of the line of sight, improve perspective effect, novel and unique display. The image will display on the glass, when people see the display at ideal distance.









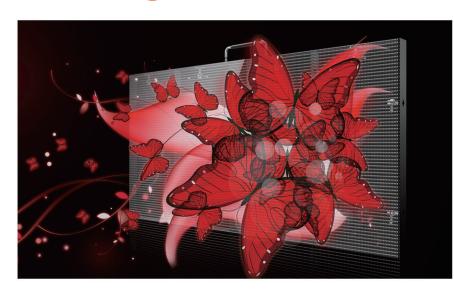




Product Feature

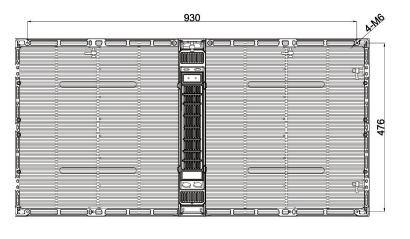
- 1.Nationstar Led SMD1921
- 2. The pixel pitch is various, from 3.91mm-10.41mm
- 3.DIY design, any size can be combined freely
- 4. High transparency >50%, above 90% when at a distance
- 5. Screen thickness is 36mm, only 76mm including power supply box
- 6.Good natural ventilation and cooling effect
- 7.Only 5kg/pcs, easy to operate with single hand
- 8. Meet the requirements of hanging and floor-standing, indoor and outdoor use

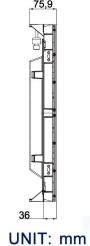
Advantage

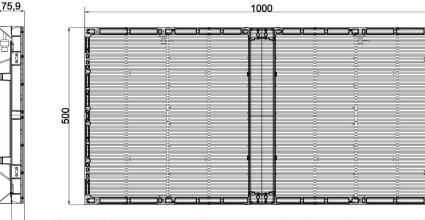


- High transparency: More than 50%, above 90% at far
- Comfort: Reduce glare, harsh sense and visual fatigue
- Adaptability: Damp-proof, anti-dust, easy maintenance, fast installation
- Use friendly: Light weight and save energy

Cabinet Size











Cloud Screen Specification













Part Number	Cloud-3.9-7.8	Cloud-5.2-7.8	Cloud6.94-7.8	Cloud-9.2-10.4	
Pixel Pitch	H3.9-V7.8mm	H5.2-V7.8mm	H6.9-V7.8mm	H9.2-V10.4mm	
LED Configuration	SMD1921	SMD1921	SMD1921	SMD1921	
Pixel Density	32256dot/m ²	24576dot/m ²	18560dot/m ²	10368dot/m ²	
Transparency	50%	50%	50%	70%	
Bar Arrangment	Horizontal / Vertical	Horizontal / Vertical	Horizontal / Vertical	Horizontal / Vertical	
Module Size	500X250mm	500X250mm	500X250mm	500X250mm	
Bar Resolution	126X32dot	90X32dot	72X32dot	54X24dot	
Cabinet Size	1000X500mm	1000X500mm	1000X500mm	1000X500mm	
Cabinet Resolution	252X64dot	180X64dot	144X64dot	108X48dot	
Cabinet Weight	6kg/Panel	6kg/Panel	6kg/Panel	6kg/Panel	
IP Rating (front/back)	IP43	IP43	IP43	IP43	
Scan	78	58	48	2S	
Viewing Angle (H/V)	140°/140°	140°/140°	140°/140°	140°/140°	
Viewing Distance	>5m	>5m	>10m	>10m	
Gray Scale	14-16bit	14-16bit	14-16bit	14-16bit	
Max.Power Consumption	800W/m²	600W/m²	600W/m²	600W m ²	
Ave.Power Consumption	260W/m²	200W/m²	200W/m²	200W/m²	
Brightness		3500~50	00CD/m2		
Operating Life	≥100,000hours				
Refresh Rate	≥1920Hz				
Environment	INDOOR				
Control Mode	Synchronous display with control PC by DVI				
Support Input	Composite,S-Vido,Component,VGA,DVI,HDMI,HD_SDI				
Operation Power	AC110~ 240V, 50/60Hz				
Operating Temperature		- 20°C	C~50°C		
Operating Humidity		10%	~90%		

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Outdoor Transparent Screen

Outdoor transparent screen is designed for outdoor application (glass wall, building surface etc.), which requires high resolution, light weight and high transparency.

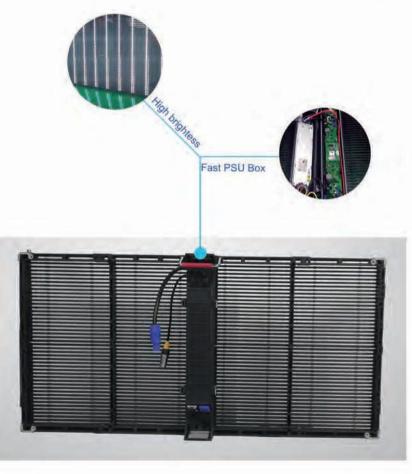




Feature

- 1. High brightness & IP65
- 2. Light Weigh & Ultra Thin
- 3. Cost effective
- 4. Fast Lock System & No Fan Design
- 5. Rental & Fixed Installation Use





Outdoor Transparent Screen

	Outdoor Transparent Screen Specification				
1	Pitch	10.4mm			
2	Transparency (%/M²)	58			
3	Density(dot/M²)	9216			
4	Resolution	96*96			
5	Scan	28			
6	Max. Consumption (W/M²)	800			
7	Ave. Consumption (W/M²)	260			
8	Brightness (CD/M²)	≥5000			
9	Cabinet Size (mm)	1000*500*78			
10	Weight (Kg)	≤6			
11	Refresh Rate (Hz)	≥1920			
12	LED	SMD2727 Nationstar			
13	Driving IC	MBI5124			
14	Control System	Nova A4s/Moncell T120			
15	Support Input	DVI/HDMI/DP			
16	Grey Grade	14-16bit			
17	IP Rate	IP65			
18	PSU	PFC DC4.7V 80A			
19	Working Voltage	DC4.7+-0.2V			
20	Input Voltage	AC100~240V 50/60Hz			
21	Temperature/Humidity	-20°C~40°C,10%-90%			
22	Material	ADC12#Aluminum			
23	Span Life	≥100,000hours			



Rental/Fixed LED Screen







Rental LED Screen

ZHONGRUN invisible Cable die-casting LED screen with standard cabinet size 500mm*500mm, flexible combination, widely use in indoor & outdoor stage rental live events. Using special structure design and material, if added a high quality interactive system, this screen can be used as dance floor LED screen.



Features

High Refresh
Seamless Connection
Front & Rear Service
Thin & Light
Strong Structure

Advantage

- Only 7.2 kg/cabinet, easy to transport and install, can save a lot of labor costs.
- 2. Using cable invisible design, install and remove more conveniently.
- 3. Using high quality LED lamps, high contrast ratio, and PFC PSU, reduce power consumption.



Part Number	P3.91	P4.81
Pixel Pitch	3.91mm	4,81mm
Pixel Density (dot/m2)	65536	43264
LED Type(Outdoor)	SMD1921	SMD1921
LED Type(Indoor)	SMD2121	SMD2121
Scan Mode	1/8&1/16	1/8&1/16
Module Resolution(PX*PX)	64*64	52*52
Cabinet Size	500*500*76.2mm	500*500*76.2mm
Cabinet Material	Die casting aluminum alloy	Die casting aluminum alloy
Cabinet Weight	7.3kg&8kg/Panel	7.3kg&8kg/Panel
Relative Moisture	<10-95%	<10-95%
Best Viewing Distance	>4m	>5m
Best Viewing Angle	H: 160 / V: 160	H: 160 / V: 160
IP Rating (Rront/Back)	IP43/65	IP43/65
Brightness	>1000&>5500CD/m2	>1000&>5500CD/m2
Refresh Rate	1920-3840Hz	1920-3840Hz
Grey Scale	16Bit	16Bit
Refresh Frame Frequency	>60Hz	>60Hz
Working Temperature	-20°c50°c	-20°c50°c
Working Humidity Range	10% -95% RH(No condensation)	10% -95% RH(No condensation)
Storage Temperature Range	-20°c60°c	-20°c60°c
Input Voltage	DC: 4.2-5V	DC: 4.2-5V

P1.667 Specification

200mm*150mm	Cabinet Size	400mm*300mm
Rear or Front	Ave.Power	500W/m²
1000cd/m ²	Viewing Angle	120°(H)/120°(V)
1/30	Temperature	-20℃-+60℃
AC110V-220V±10%	Refresh Rate	>2000HZ
	Rear or Front 1000cd/m² 1/30	Rear or Front 1000cd/m² Viewing Angle 1/30 Temperature



P1.875 Specification

Module Size	240mm*240mm	Cabinet Size	480mm*480mm
Maintennace	Rear or Front	Ave.Power	300W/m ²
Brightness	1000cd/m ²	Viewing Angle	120°(H)/120°(V)
Scan Method	1/32	Temperature	-20℃-+60℃
Voltage	AC110V-220V±10%	Refresh Rate	>2000HZ



P2 Specification

Module Size	256mm*128mm	Cabinet Size	512mm*512mm
Maintennace	Rear or Front	Ave.Power	300W/m²
Brightness	1200cd/m²	Viewing Angle	120°(H)/120°(V)
Scan Method	1/32	Temperature	-20℃-+60℃
Voltage	AC110V-220V±10%	Refresh Rate	1920HZ



P2.5 Specification

Module Size	160mm*160mm	Cabinet Size	480mm*480mm
Maintennace	Rear or Front	Ave.Power	600W/m ²
Brightness	1200cd/m²	Viewing Angle	120°(H)/120°(V)
Scan Method	1/32	Temperature	-20°C-+60°C
Voltage	AC110V-220V±10%	Refresh Rate	1920HZ



P3 Specification

Module Size	192mm*192mm	Cabinet Size	576mm*576mm
Maintennace	Rear or Front	Ave.Power	400W/m²
Brightness	1300cd/m²	Viewing Angle	120°(H)/120°(V)
Scan Method	1/32	Temperature	-20℃-+60℃
Voltage	AC110V-220V±10%	Refresh Rate	1920HZ



P4 Specification

Module Size	256mm*128mm	Cabinet Size	768mm*768mm
Maintennace	Rear or Front	Ave.Power	600W/m ²
Brightness	1500cd/m ²	Viewing Angle	120°(H)/120°(V)
Scan Method	1/16	Temperature	-20℃-+60℃
Voltage	AC110V-220V±10%	Refresh Rate	1920HZ



P6 Specification

Module Size	192mm*192mm	Cabinet Size	480mm*480mm
Maintennace	Rear	Ave.Power	600W/m ²
Brightness	5500-6000cd/m ²	Viewing Angle	120°(H)/120°(V)
Scan Method	1/8	Temperature	-20°C-+60°C
Voltage	AC110V-220V±10%	Refresh Rate	>1000HZ



P8 Specification

Module Size	256mm*128mm	Cabinet Size	768mm*768mm
Maintennace	Rear	Ave.Power	430W/m²
Brightness	6000-6500cd/m ²	Viewing Angle	120°(H)/120°(V)
Scan Method	1/4	Temperature	-20℃-+60℃
Voltage	AC110V-220V±10%	Refresh Rate	>1000HZ



P10 Specification

320mm*160mm	Cabinet Size	960mm*960mm
Rear	Ave.Power	350W/m²
6500-7500cd/m ²	Viewing Angle	120°(H)/120°(V)
1/4or1/2	Temperature	-20℃-+60℃
AC110V-220V±10%	Refresh Rate	>1000HZ
	Rear 6500-7500cd/m² 1/4or1/2	Rear Ave.Power 6500-7500cd/m² Viewing Angle 1/4or1/2 Temperature





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—P3







