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DicoLor LED

The Top Global Visual Technology Solutions Provider

SHENZHEN DICOLOR OPTOELECTRONICS CO., LTD

15 YEARS

INDUSTRY MODEL

Display Technology Creates A Better Life

CONTENTS

COMPANY PROFILE

5 YEARS
TOP TEN LED DISPLAY INDUSTRY

210+ PATENTS

Dicolor, the top global visual technology solutions provider, has been adhering to technological innovation since its establishment 15 years ago. We have industry's leading D-COB technology independently developed by ourselves, and the world's top three stage-art performing market share, and more than 210 patents. Dicolor has won many domestic and foreign awards such as the German Red Dot Design Award and the Japanese Good Design.

Dicolor takes rental & event display, commercial display and Melink conference all-in-one as the market direction, and goes hand in hand. Products are widely used in stage leasing, broadcast media, sports, exhibitions, transportation, education, security, conferences and other fields. Dicolor always adhere to the quality concept of "Brand is based on quality", and strive to be the top one of led display industry.

Dicolor Rental & Event Group, focusing on high-definition event & stage rental display and creative display, with the concept of "stage art worldwide, stage shining the world", aims to provide customers with the best service and jointly promote the development of stage display field.

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2006 | **9000m²** | **21000m²**
Established | Shenzhen Headquarters | Dongguan Production Base

COMPANY PROFILE

2006
Dicolor was founded in Shenzhen with registered capital of 500,000RMB.

2007
Successfully exported 500m² screens for the Ethiopian Millennium 2000.

2008
Dicolor has become the top 20 of LED display industry;
Dicolor P16mm display supported the Winter Universiade.

2009
Moved to new factory which covers 10,000m² and registered capital increased to 10 million RMB;
Dicolor LED display showed in Singapore Formula 1 racing.

2010
The only one LED display company with EN12966 certification in China;
Products supported the 16th Asian Games;

2011
Launched the world's first MBI5035 energy-saving display;
Launched die-casting aluminum cabinet and started a new era of stage screens.

2012
Established branch office in 5 provinces;
Registered capital increased to 40 million RMB ;
German subsidiary was founded.

2013
Launched S series for fine pixel pitch, which was applied in French National Television;
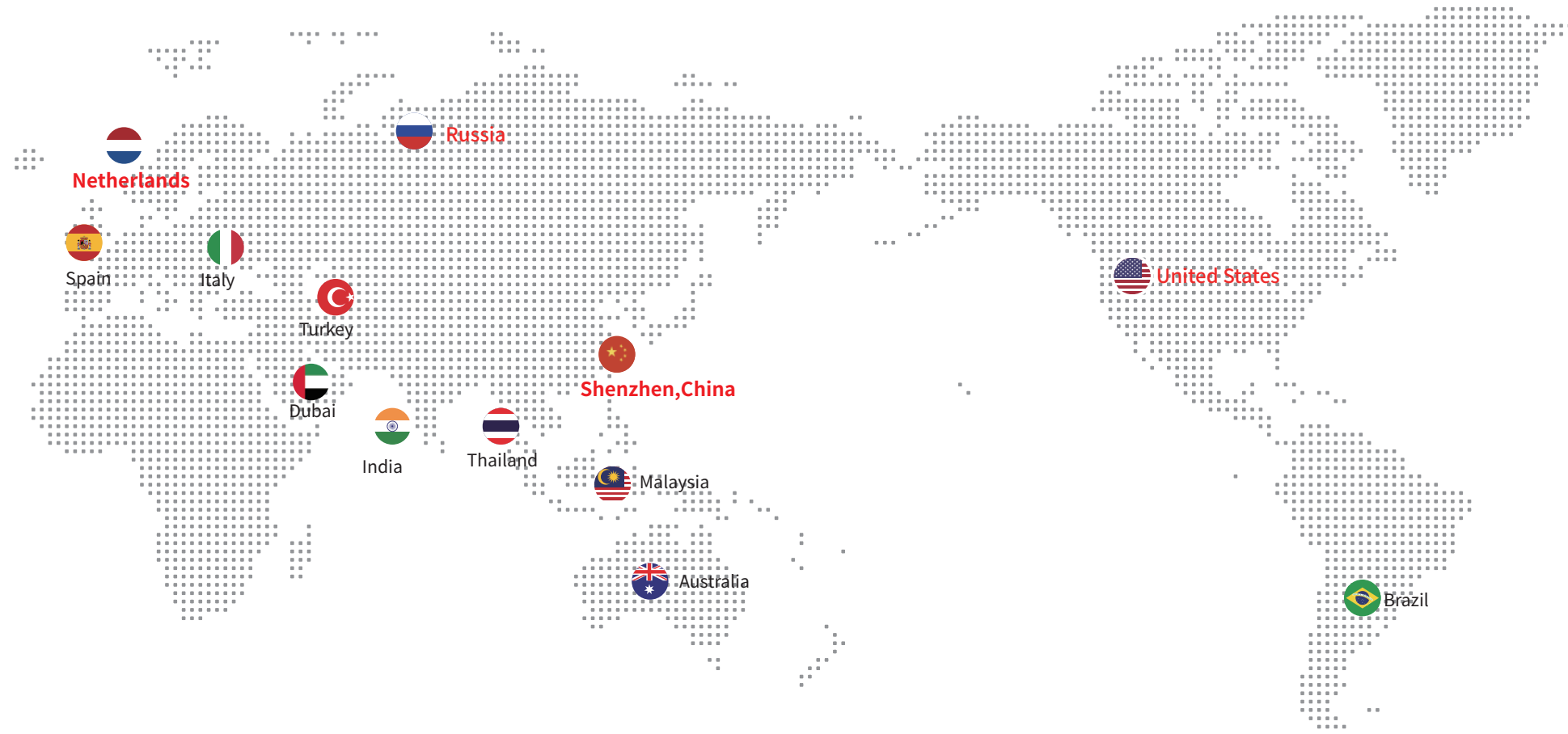Got prize of "The industry's fast growth company".

2014
Moved to new factory and office, which covers 20000m²;
Established subsidiary of "Youai Technology", concentrating on traffic screen.

2015
Launched 10 million stock owned plan for employees;

2016
Launched X-Plus Series for HD rental;
1000m² screens were installed in Macau Sands Theatre.

2017
Got G-mark Design Award;
Launched commercial fine pixel pitch products for the first time;
Founded US & Netherland subsidiary.

2018
First year for IPO and launched listing plan officially;
Launched the independent SRG technology.

2019
Established Dicolor Dongguan Intelligent Co., Ltd with 21,000m²;
HP & HT series Got Red Dot Design award;
Founded Russian Subsidiary and Malaysia branch office.

2020
Set Up Shenzhen Microcob Technology Co. , Ltd. , focusing on D-COB technology development;
Secured a significant Series A funding;
Conversion to joint-stock enterprises;
Becomes one of the Shenzhen's top 500 enterprises.

Netherlands

Russia

Spain

Italy

Turkey

Dubai

India

Thailand

Malaysia

Shenzhen,China

United States

Australia

Brazil

Inner Mongolia

Beijing

Shandong

Xi'an

Jiangsu

Anhui

Chongqing

Hubei

Zhejiang

Yunnan

Fujian

Guangxi

Guangdong

Shenzhen
Headquarters

⊙ Headquarters

★ Branch office

○ Channel partner

CORE TECHNOLOGY

D-COB TECHNOLOGY

(Double Chip on Board) A secondary packaging technology based on Mini/Micro LED developed by Dicolor, which effectively protects the substrate and LED packaging unit. It can resist against extremely harsh environment, and achieve true waterproof, dust-proof, anti-corrosion, anti-static, anti-collision, and Anti-UV. The consistency, protection class and stability are significantly improved. D-COB can be widely used in Ultra HD Display areas.

SRG TECHNOLOGY

Super refresh rate and gray level, based on the general application software, combined with Dicolor self-developed functional chips, this technology can improve refresh rate, gray level and contrast to a large extent. SRG technology is a great breakthrough in display technology of Dicolor.

ABR TECHNOLOGY

Anti-collision Bottom Reinforcement Technology, used to increase the adhesion between the LED pins and the PCBs on both sides of the LED lamp pins, which greatly improves the problem of LED bumping and falling during production and customer use, effectively protect the LED lamps on the edge and reduce maintenance cost.

6G NEAR FIELD WIRELESS TRANSMISSION TECHNOLOGY

A non-contact electromagnetic wave signal propagation technology, by adding an electromagnetic wave sensor to the module and the HUB board, which can free the module from the restriction of the signal cable and make the signal transmission more stable, reduce the problems of false soldering and poor contact in the conventional pin header. The stability of the module is largely improved.

FAST-LOCK KNOB

A knob-type structure can quickly realize multiple splicing angles. Each rotating surface has an angled boss. The angle boss is die-cast and has ultra-high precision. By rotating and replacing the boss can effectively reduce the precision difference caused by changing the height of the boss. We can quickly realize high-precision arc splicing.

Brand Is Based On Quality

Dicolor has a complete set of quality control system from raw materials, manufacturing process, and delivery to ensure that customers' quality expectations are met.

Raw Materials — **Manufacturing Processing** — **Delivery**
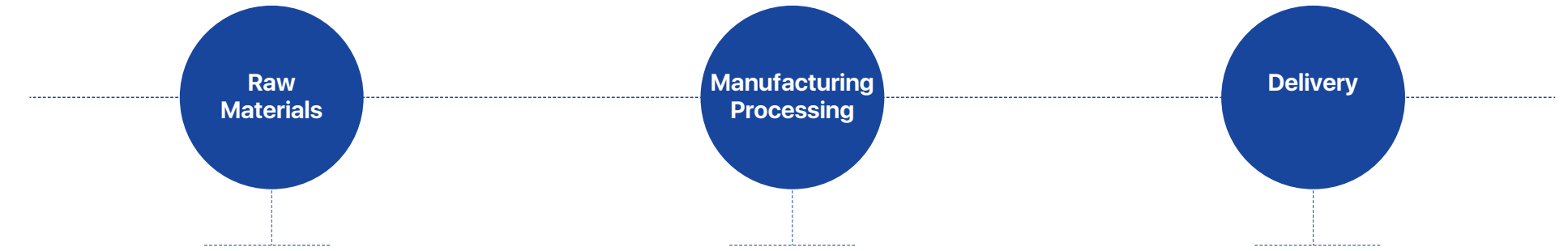
Source Control
Supplier Qualification Evaluation System, on-site suppliers counseling and audit, and establishing strategic partnerships with high-quality suppliers.

IQC
Incoming Material Inspection and Experimental Control Procedures, sample recognition, incoming materials are tested according to international standards.

Process Inspection Standard, including strict requirements for each procedure.

Stability Test
Constant temperature and humidity, hot and cold shock, salt spray, fire prevention, push/pull force, water immersion, vibration and other tests to ensure the safety of product.

Aging Test
Module aging test for 24H and screen for 72H.

End Product Packaging Inspection
Accessories, markings, packaging materials, sealing and tail boxes are all carefully inspected to meet order requirements and ensure safety during transportation.

National Hi-Tech Enterprises

Contract and Trustworthy Enterprise of Guangdong Province

Recommended Brands for Smart City Construction in 2019

AAA Credit Rated Enterprise

Excellent Enterprise of LED Screen

The Most Growing Company of LED Industry in China

Red Dot Award

China Good Design Award

Japan Good Design Award

2019 Security Top Ten Outstanding Product Awards

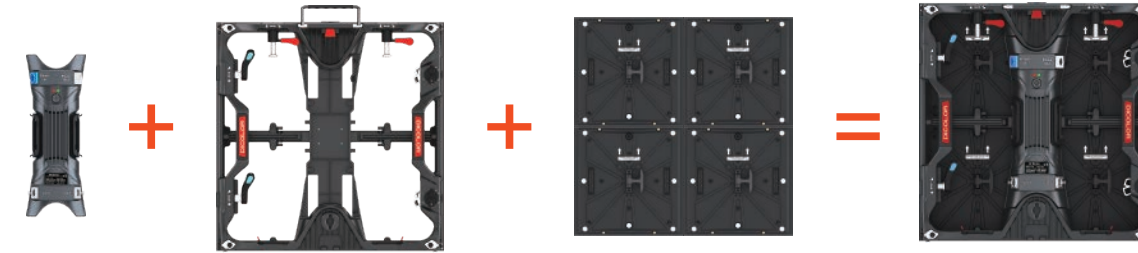DEA Training Online and Offline

400 Global Call Service(7/24 online)

2-year Warranty Lifetime Maintenance

Installation Video Instruction Manual

Escort At Major Events

Regular Return Visit

AFTER-SALES SERVIC
400-6645-658

AF SERIES

S Curve Design	**⊤** Single Person Installation	**Anti-Damage**	**Front/Rear Maintenance**
Modular	**Hz** High Gray Scale High Refresh Rate		

Product	AF-151	AF-231	AF-261	AF-291	AF-391
Pixel Pitch (mm)	1.5625	2.38	2.604	2.97	3.906
Cabinet size (WxHxD/mm)	500×500×80	500×500×80	500×500×80	500×500×80	500×500×80
Cabinet Resolution	320×320	210×210	192×192	168×168	128×128
Cabinet Weight (Kg)	7.8	7.8/8.5	7.8/8.5	7.8/8.5	7.8/8.5
Brightness (Nits)	800 (Mini 4 合 1)	1000 (SMD1515)	800 (SMD1515)	800 (SMD1515)	800 (SMD2020)
Refresh Rate (Hz)	≥2880	≥2880	≥2880	≥3840	≥3840
Gray Scale (Bit)	14	14	14	14	14
IP Rating (Front/Rear)	IP40/IP21	IP40/IP21	IP40/IP21	IP40/IP21	IP40/IP21
Max./Avg Power Consumption (W/m^2)	508/149	183/173	520/173	528/176	536/178
Curve	/	±5°	±5°	±10°	±15°

Modular Design

Implement the universal switch of module, power box And module.

Originate Creating

Humanized arc lock design (optional).

0.1 mm Accuracy   **2** Steps

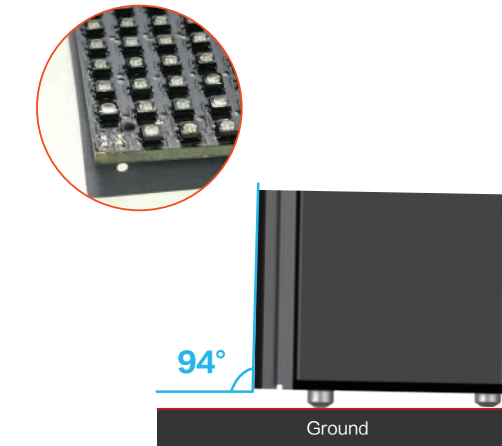● Adjust the angle   ● Fasten the lock

Full Front and Back Maintenance

Quick maintenance of different occasions.
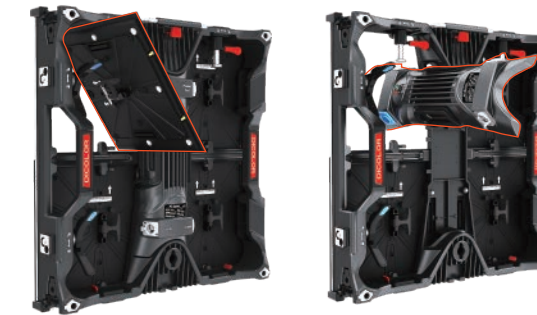
Reduce the Need of Maintenance

Double protection against bump and welding.

Intelligent Corner Protector

360°preventing modules from damage.


94° Ground

NF SERIES

Front Maintenance

Fast assembling

Anti-damage Design

Curve Design

Single Person Installation

Standardization

| Product	NF-171	NF-231	NF-291	NF-390
Pixel Pitch (mm)	1.73	2.38	2.91	3.91
Cabinet Size (WxHxD/mm)	500×750×80	500×750×80	500×750×80	500×750×80
Cabinet Resolution	288x432	210x315	168x252	128x192
Cabinet Weight (Kg)	10.8	10.8/11.4	10.8/11.4	11.2/11.8
Brightness (Nits)	800	1200	1200	4500
Refresh Rate (Hz)	2880	2880	3840	3840
Gray Scale (Bit)	14	14	14	14
IP Rating (Front/Rear)	IP40/IP21	IP40/IP21	IP40/IP21	IP65/IP54
Max./Avg Power Consumption (W/m²)	600	640	648	791

New Cabinet Size

500×750mm cabinet size, just right size and weight, find a balance point between installation efficiency and installation convenience.
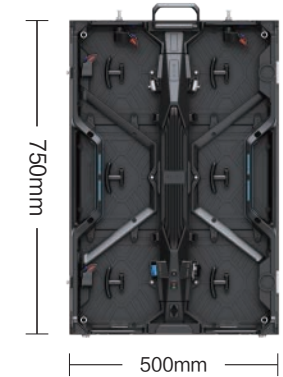
· Lightweight
· High installation efficiency
· Flexible size
· Lower investment
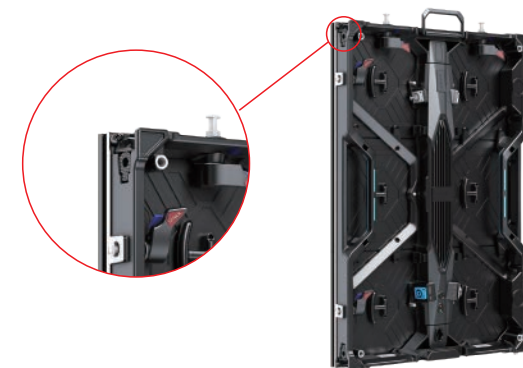
Modular Design

The cabinet is composed of three parts: control box, frame and modules, which is super convenient for maintenance.

High Accuracy Arc Lock

The industry's first rotary block arc lock, which completes perfect arc splicing in two steps, the accuracy is 0.01mm.

0.01 mm Accuracy
2 Steps

Adjust the angle

Fasten the lock

Floor Tile Screen Application

The outdoor cabinet can be used as a simple floor tile screen by adding acrylic board. We recommended weight should not exceed 300kg and the size should be ≤20m².

PCB Anti-collision

The second-generation PCB anti-collision design of Dicolor makes it easy to repair without dropping the pad when the lamp is off.
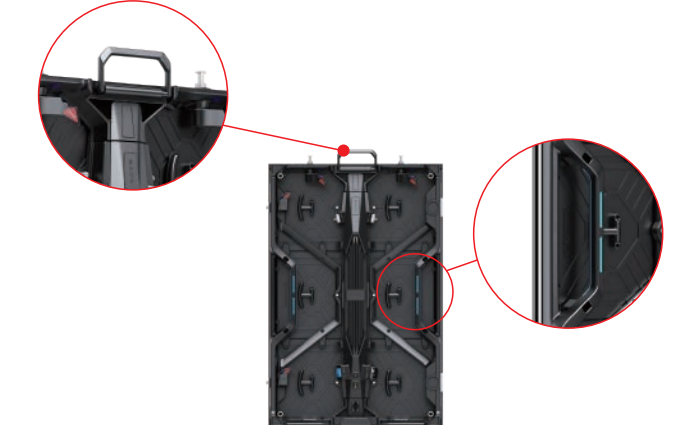
Easy Installation

The frame is designed with Bump positioning, high precision and convenient . The positioning bolt design effectively solves the level problem of the first row cabinet.

D SERIES

Light Weight
Fast Assembly
Anti-Damage Design
Mixed Splicing
Standardization
Tidy Cabinet Design

| Product	D-261 indoor	D-291 indoor	D-391 indoor		D-390 outdoor		D-480 outdoor		D-590 outdoor	
Pixel Pitch (mm)	2.604	2.97	3.91		3.91		4.81		5.95	
Cabinet Size (WxHxD/mm)	500×500×65	500×500×65	500×500×65	500×1000×65	500×500×65	500×1000×65	500×500×65	500×1000×65	500×500×65	500×1000×65
Cabinet Resolution	192×192	168×168	128×128	128×256	128×256	128×256	104×104	104×208	84×84	84×168
Cabinet Weight (Kg)	6.5	6.5	6.5 / 10		7 / 11.5		7 / 11.5		7 / 11.5	
Brightness (Nits)	800	800	800		3500		3500		3500	
Refresh Rate (Hz)	≥3840	≥1920	≥1920		≥3840		≥3840		≥3840	
Gray Scale (Bit)	14	14	14		14		14		14	
IP Rating (Front/Rear)	IP40/IP21	IP40/IP21	IP40/IP21		IP65/IP54		IP65/IP54		IP65/IP54	
Max./Avg Power Consumption (W/m²)	520/173	456/152	460/153		650/217		650/217		650/217	

Extremely Light Weight and Thin Thickness

Thickness less than 65mm, weight in 10kg, ahead of other suppliers.
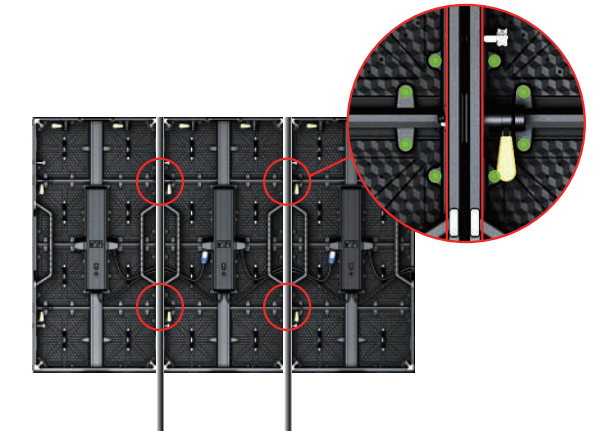
65 mm Thick
10 Kg Weight

Mixed Splicing

500x500mm and 500x1000mm cabinets can be easily spliced up and down, greatly satisfying different needs of assembling.
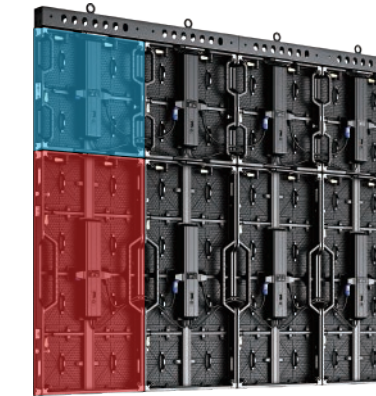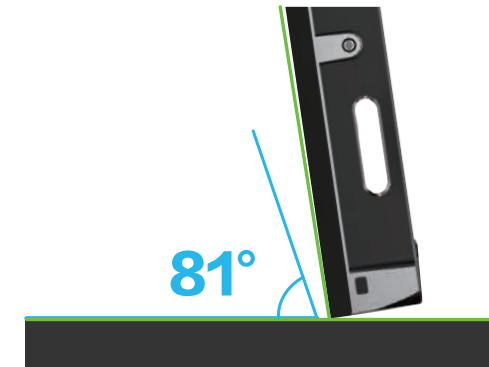
Quick Installation

The unique cabinet design highly improves the efficiency of installation and maintenance.

Anti-bump Design

Cabinet anti-bump design, effective protection of the module from damage, transport ation and handling more secure.

81°

Anti - Bump Welding Plate Design

Anti-bump welding plate design, even if the LED lamps were knocked off, the welding plate will not be damaged, greatly improving the LED lamp maintainability.
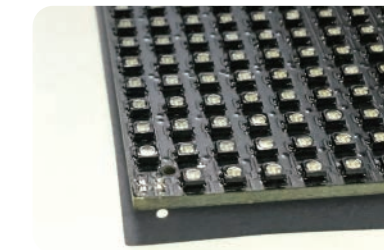
Quick Installation

The left and right sides of the cabinet to retain the convex and concave step positioning to prevent the dislocation of the cabinets front and back during the installation; cabinet right and left fast positioning pin design to prevent the dislocation of the cabinets up and down during the installation.
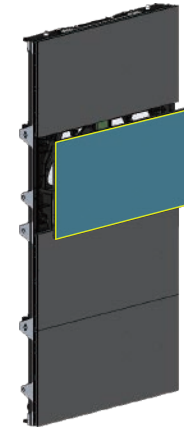
0.1mm Accuracy

Convex and concave step positioning
Fast positioning pin
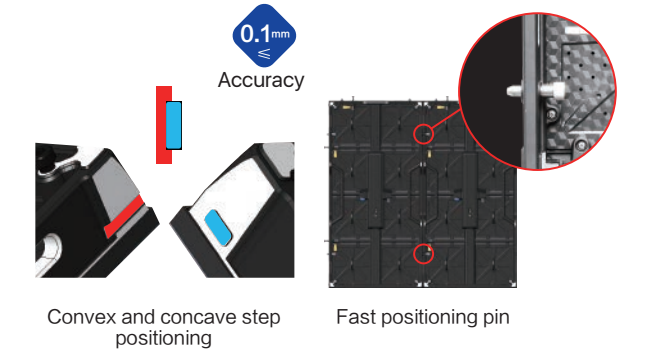
DP SERIES

Full Front Maintenance

Anti-damage Design

Curve Design

Mixed Splicing

High Definition

Rectangular Splicing

Floor Tile

Product	DP-261	DP-291	DP-391		DP-390		DP-480		DP-590	
Pixel Pitch (mm)	2.604	2.97	3.91		3.91		4.81		5.95	
Cabinet Size (WxHxD/mm)	500×500×65	500×500×65	500×1000×65	500×500×65	500×1000×67	500×500×67	500×1000×67	500×500×67	500×1000×67	500×500×67
Cabinet Resolution	192×192	168×168	128×128	128×256	128×256	128×128	104×208	104×104	84×168	84×84
Cabinet Weight (Kg)	6.5	7	7/11.5		7/11.5		7/11.5		7/11.5	
Brightness (Nits)	800	800	800		3500		3500		3500	
Refresh Rate (Hz)	≥3840	≥1920	≥1920		≥3840		≥3840		≥3840	
Gray Scale (Bit)	14	14	14		14		14		14	
IP Rating (Front/Rear)	IP40/IP21	IP40/IP21	IP40/IP21		IP65/54		IP65/54		IP65/54	
Max./Avg Power Consumption (W/m²)	520/173	456/152	460/153		650/217		650/217		650/217	
Curve	±5°/0°	±5°/90°	±15°/90°		±10°/90°		±10°/90°		±15°/90°	

Front Maintenance

DP series indoor products support module front and rear maintenance.

Styling Splicing

Two sizes of cabinets support up and down splicing ,left and right misalignment.

Curved Splicing

All DP series support curved splicing.

Right Angle Splicing

The four DP cabinets can be assembled into a cubic column shape.

Triple Protection

The DP series is designed with triple protection, anti-collision for lamp/cabinet/cabinet corner.

Anti-collision   Triple protection

Floor Tile Application

Meet the needs of rental customers' floor tiles applications.

MD SERIES

Light Weight
Fast Assembly
Anti-Damage Design
Mixed Splicing
Standardization
Tidy Cabinet Design

Product	MD–261 indoor	MD–291 indoor	MD–391 indoor		MD–390 outdoor		MD–480 outdoor		MD–590 outdoor	
Pixel Pitch (mm)	2.604	2.97	3.91		3.91		4.81		5.95	
Cabinet Size (WxHxD/mm)	500×500×65	500×500×65	500×500×65	500×1000×65	500×500×65	500×1000×65	500×500×65	500×1000×65	500×500×65	500×1000×65
Cabinet Resolution	192×192	168×168	128×128	128×256	128×256	128×256	104×104	104×208	84×84	84×168
Cabinet Weight (Kg)	6.7	6.7	6.7 / 11.3		7.3 / 12.5		7.3 / 12.5		7.3 / 12.5	
Brightness (Nits)	800	800	800		3500		3500		3500	
Refresh Rate (Hz)	≥3840	≥1920	≥1920		≥3840		≥3840		≥3840	
Gray Scale (Bit)	14	14	14		14		14		14	
IP Rating (Front/Rear)	IP40/IP21	IP40/IP21	IP40/IP21		IP65/IP54		IP65/IP54		IP65/IP54	
Max./Avg Power Consumption (W/m²)	520/173	456/152	460/153		650/217		650/217		650/217	

Extremely Light Weight and Thin Thickness

The thickness of the cabinet is only 65mm and the maximum weight is only 12.5kg, saving transportation and installation costs.

65 mm Thick

12.5 Kg Weight

Safety

The frame has a corner protection design, and the bottom of the cabinet is anti-damage design , which effectively protects the modules.The cabinet anti-damage performance is greatly improved.
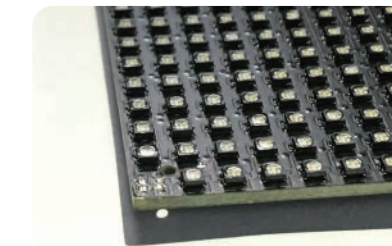
Layher Scaffold Installation

The Lyher scaffold will not be interfered by the cabinet. The reserved cable tie holes and the drawer type control box are very suitable for the Layher scaffold installation application.

Floor Tile screen Application

The outdoor cabinet can be used as a simple floor tile screen by adding acrylic board. We recommended weight should not exceed 300kg and the size should be ≤20m².
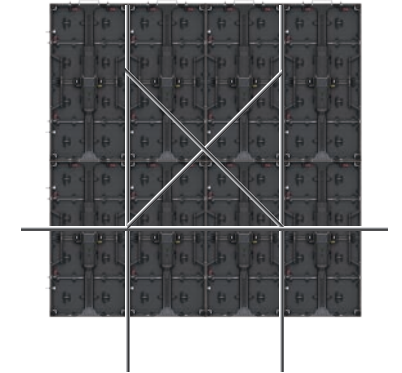
PCB Anti-collision

The second-generation PCB anti-collision design of Dicolor makes it easy to repair without dropping the pad when the lamp is off.

Easy Installation

The frame is designed with Bump positioning, high precision and convenient . The positioning bolt design effectively solves the level problem of the first row cabinet.

0.1 mm Accuracy

Convex and concave step positioning

Fast positioning pin
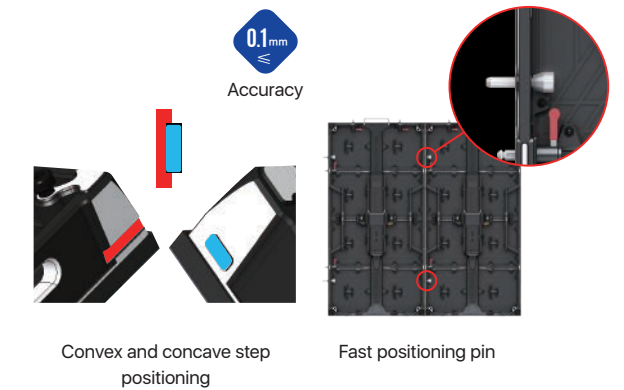
UC SERIES

Extremely Light & Slim | **Single Person Installation** | **Curve Design** | **Front Maintenance** | **Mixed Splicing** | **Modular** | **Rectangular Splicing**

Product	UC-261	UC-291	UC-391		UC-390		UC-480		UC-690		UC-890	
Pixel Pitch (mm)	2.604	2.97	3.91		3.91		4.81		6.94		8.928	
Cabinet Size (WxHxD/mm)	500x500x72	500x500x72	500x1000x72	500x500x72	500x1000x72	500x500x72	500x1000x72	500x500x72	500x1000x72	500x500x72	500x1000x72	500x500x72
Cabinet Resolution	192x192	168x168	128x256	128x128	128x256	128x128	104x208	104x104	72x144	72x72	56x112	56x56
Cabinet Weight (Kg)	7.3	7.3	7.3/11.5		7.3/11.5		7.3/11.5		7.3/11.5		7.3/11.5	
Brightness (Nits)	800	1000	800		4500-5000		4500-5000		4000		4000	
Refresh Rate (Hz)	≥3840	≥3840	≥3840		≥3840		≥3840		≥1920		≥1920	
Gray Scale (Bit)	14	14	14		14		14		14		14	
IP Rating (Front/Rear)	IP40/IP21	IP40/IP21	IP40/IP21		IP65/IP56		IP65/IP56		IP65/IP56		IP65/IP56	
Max./Avg Power Consumption	520/173	530/176	530/176		800/267		800/267		612/204		612/204	
Curve	±6°	±9°										
Eansparent	N/A								2.7%		15%	

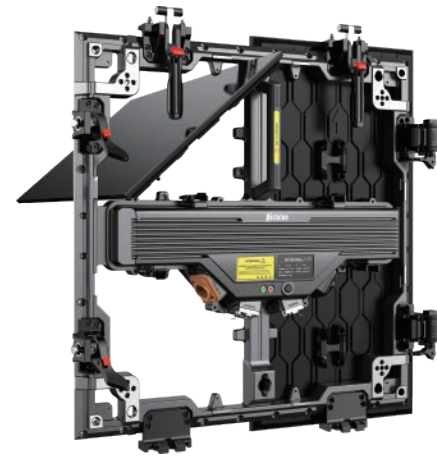## Extremely Light Weight and Thin Thickness

Thickness less than 72mm, weight in 11.5kg, ahead of other suppliers.

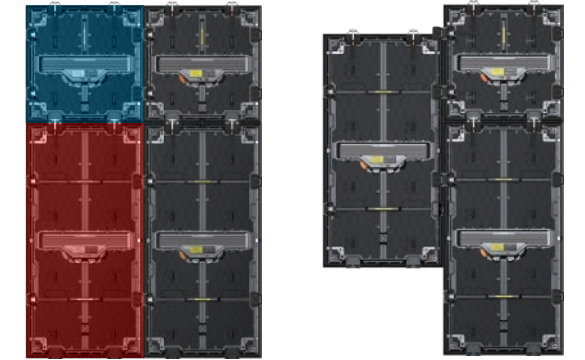**72 mm** Thick
11.5 Kg Weight

Safety

Creative and practical fast lock, safer hanging installation.

Mixed and Match

500 x 500 mm and 500 x 1000 mm cabinets can be easily connected horizontally and vertically for different configurations.

Touring

With the cart and back frame , cabinets could be Mechanized installation and convenient to transportation.
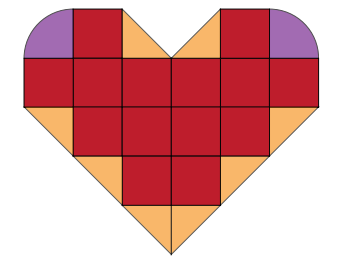
The LED Display With Multi-Use & Various Shapes

Support straight, curved, and 90 °splicing, coordinate triangle/fanshaped cabinet.

Curved   Cube   Special-shaped

MA SERIES

Front Maintenance

Fast assembling

Anti-damage Design

Curve Design

Single Person Installation

Mixed Splicing

Product	MA-290	MA-390		MA-480		MA-590	
Pixel Pitch (mm)	2.97	3.91		4.81		5.95	
Cabinet Size (WxHxD/mm)	500×500×80	500×500×80	500×1000×80	500×500×80	500×1000×80	500×500×80	500×1000×80
Cabinet Resolution	168×168	128×128	128×256	104×104	104×208	84×84	84×168
Cabinet Weight (Kg)	8	13.5 / 8		13.5 / 8		13.5 / 8	
Brightness (Nits)	4500	4500		5000		5000	
Refresh Rate (Hz)	≥3840	≥3840		≥3840		≥3840	
Gray Scale (Bit)	14	14		14		14	
IP Rating (Front/Rear)	IP65/IP54	IP65/IP54		IP65/IP54		IP65/IP54	
Max./Avg Power Consumption (W/m²)	800/267	735/245		800/267		800/267	
Curve	±5°	±10°		±10°		±15°	

Modular Design

Universal switch of module, power box and cabinet.

Fast & Easy

Fully front and back maintenance, Easy installation.
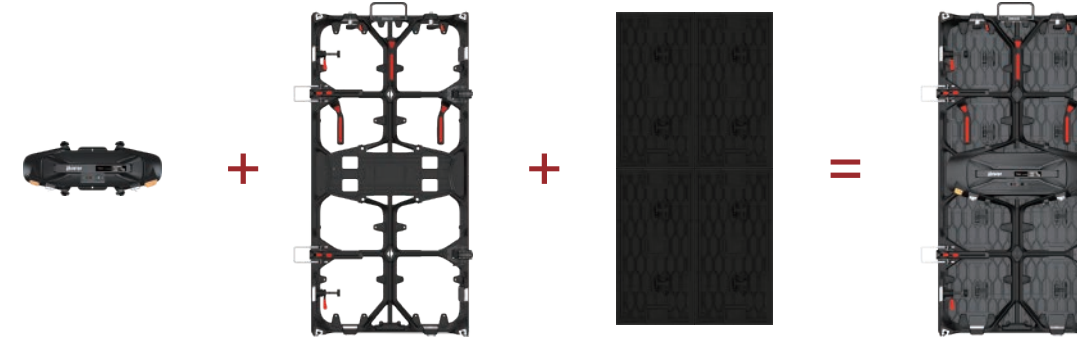
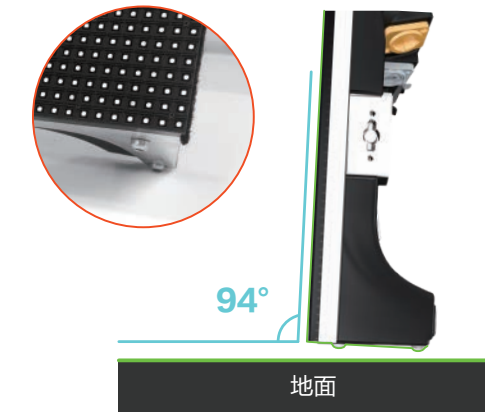## Curve Design

More options for your stage design(optional).
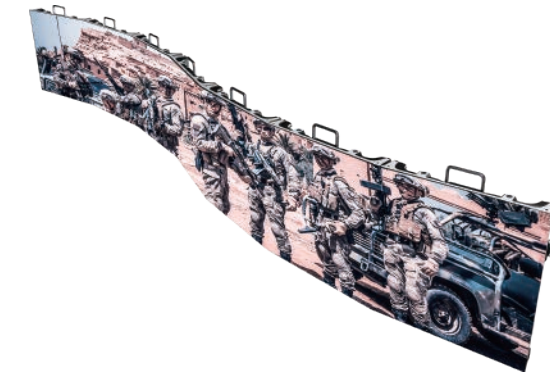
Safety

Anti-bump design for cabinets and PCB welding plate.

Mixed Splicing
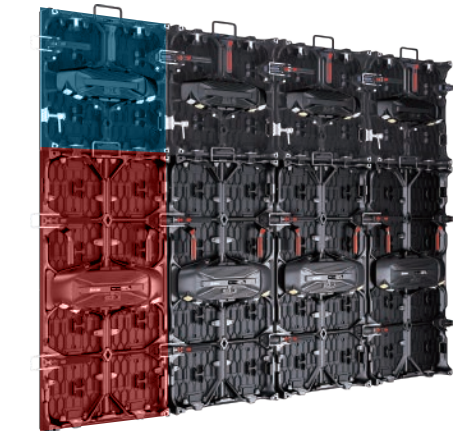
500x500mm and 500x1000mm cabinets can be easily spliced up and down, greatly satisfy different location usage.
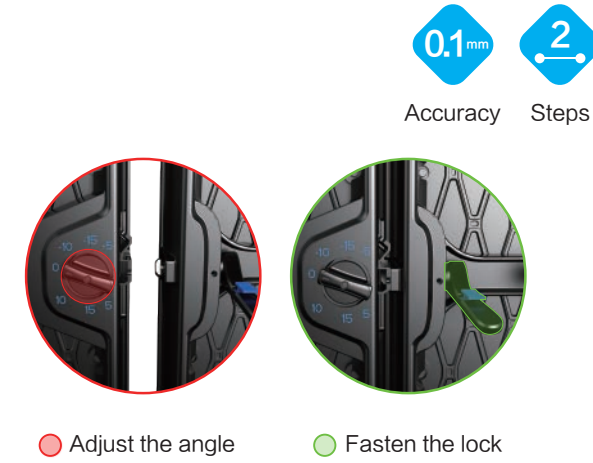

94°

地面

M-Pro SERIES

Front Maintenance | Anti-Damage Design | Curve Design | Single Person Installation

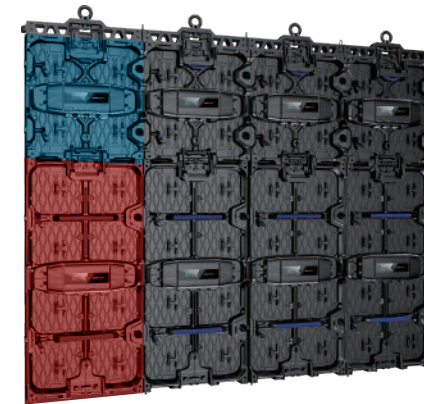| Product	M-390Pro		M-480Pro		M-590Pro	
Pixel Pitch (mm)	3.91		4.81		5.95	
Cabinet Size (WxHxD/mm)	500×1000×80	500×500×80	500×1000×80	500×500×80	500×1000×80	500×500×80
Cabinet Resolution	128×256	128×128	104×208	104×104	84×168	84×84
Cabinet Weight (Kg)	14.9/9.4		14.9/9.4		14.9/9.4	
Brightness (Nits)	4500		4500		4500	
Refresh Rate (Hz)	≥3840		≥3840		≥3840	
Gray Scale (Bit)	14		14		14	
IP Rating (Front/Rear)	IP65/IP54		IP65/IP54		IP65/IP54	
Max./Avg Power Consumption (W/m²)	735/245		816/272		800/267	
Curve	±10°		±10°		±15°	

Stage Shaping

Unique design lock ensures highly accurate curves. Just two steps works for either curved or straight installations.

0.1 mm Accuracy　　2 Steps

● Adjust the angle　　● Fasten the lock

Shortcut

Products all are front maintenance, effciency increased 5 time, innovative practical fast lock.

Module front maintenance　　Control box front maintenance　　Single−person operates

Mutual Assembly

500 x 500mm and 500 x 1000mm Cabinet can up-dowm mutual assembly. It reaches the demand for various demision of the display.
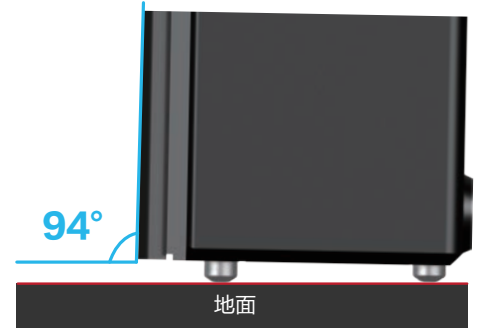
Modular Design

Die-cast aluminum modular design.

Safety

The box has Anti-knock design, effective protection module in damaged.

94°

地面

Sopot Music Festival in Poland

Poland 2018 NewYear'sDayParty

Concert in Sao Paulo, Brazil

American 311 Concert Tour

Junior EUROVISON

FINA World Swimming Championships

Chennai Concert in India

German F1 Matches

Thailand Championship Day 2017
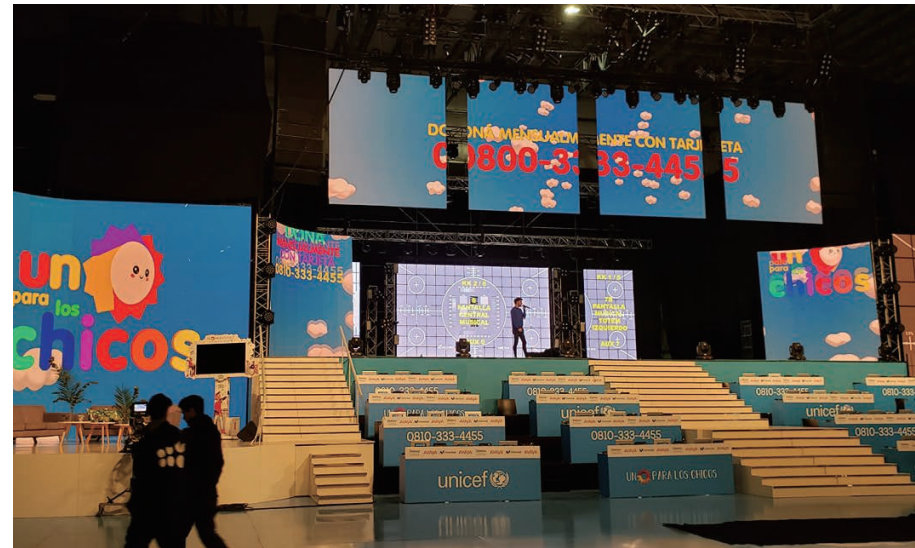

Kuala Lumpur Samsung New Product Launch Conference

Indonesian TV Station Activities

Argentina United Nations Charity Gala

Turkish Presidential Election Campaign

Poland Earth Festival

Seoul Walkerhill Hotel & Resort

Annual Meeting of Listed Companies in Vladivostok

The Live Broadcast of the World Cup Finals in France

New Product Launch of Gstar in Busan, South Korea

Sopot Music Festival in Poland

Korea 2019 KSB Performing Arts Awards

Klava Koka First Solo Concert in Russia

Macao Jinsha Grand Theatre

Jinan TV Station

Anhui TV Program Recording Base

Wang Feng Concert
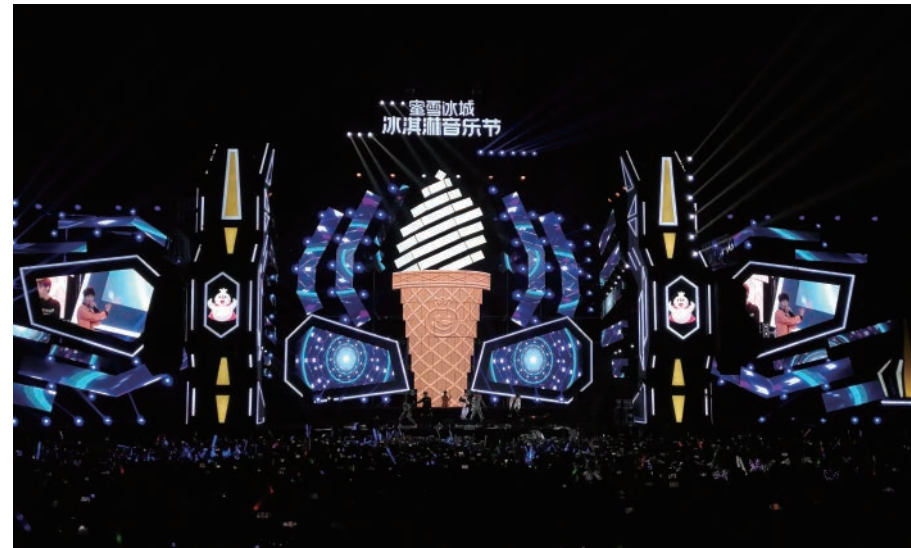

Weihai Black Valley Night Concert

China Football Association Super League Annual Award Ceremony

Opening Ceremony of Anhui Home Appliances Expo

Nanyang High Speed Railway Night

Henan Zhengzhou Ice Cream Music Festival

Chengdu City Praises the 70th Birthday of the Motherland

Anhui Film and Television Carnival

Hunan TV Youth Mango Night

Guizhou Zhenjiu's 10th Anniversary Appreciation Party

Henan Blu-ray Conference

Anhui Fuyang Sunshine City Press Conference

The 10th Central China Investment and Trade Expo

Alibaba 20th Anniversary Annual Meeting

Jiangxi Unique Tourism Promotion Conference

Nanjing Qiyue Mansion International Habitat Product Launch Conference