



Excellent in LEDs

About us

Excellent in LEDs

Excel Optoelectronics Company Limited

Excel LED has over nine (9) years experience in providing LED Screen solutions worldwide . Many companies now offer LED screens, but few can match Excel's pedigree.

In recent years, the LED screen market has expanded rapidly, with any number of opportunistic companies offering screens at sometimes unbelievable prices. Excel LED are not one of these. Our screens are not "off the shelf" products; they are carefully researched, designed and produced in-house to the highest industry standards with ISO specification, which gives us pride in ourselves and products.



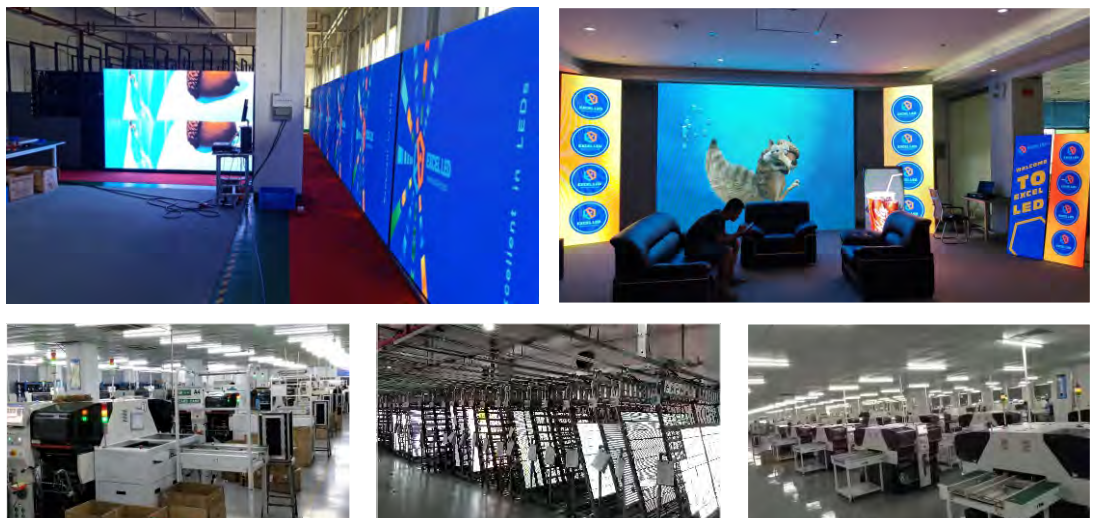
At EXCEL LED, we ensure that the finest engineering is combined with the very latest and efficient manufacturing techniques, thereby maximizing value to our customers. This approach is borne out of Excel's long experience in the LED market; having installed our very first set of full colour LED screens over nine (9) years ago, we have been ceaselessly researching and working with LED technology ever since, making us one of the most experienced name in the industry. This knowledge translates into our product design, with a host of features incorporated to optimize picture quality, durability and reliability.

With full control of our production lines, our products are made to order with the flexibility to accommodate custom designs such as curved screens. Massive investment in R&D allows us to continually develop market leading innovative and advanced products to the very highest standard.

Certification



Workshop



Products List



Smart
series

Rental LED Display

B
series

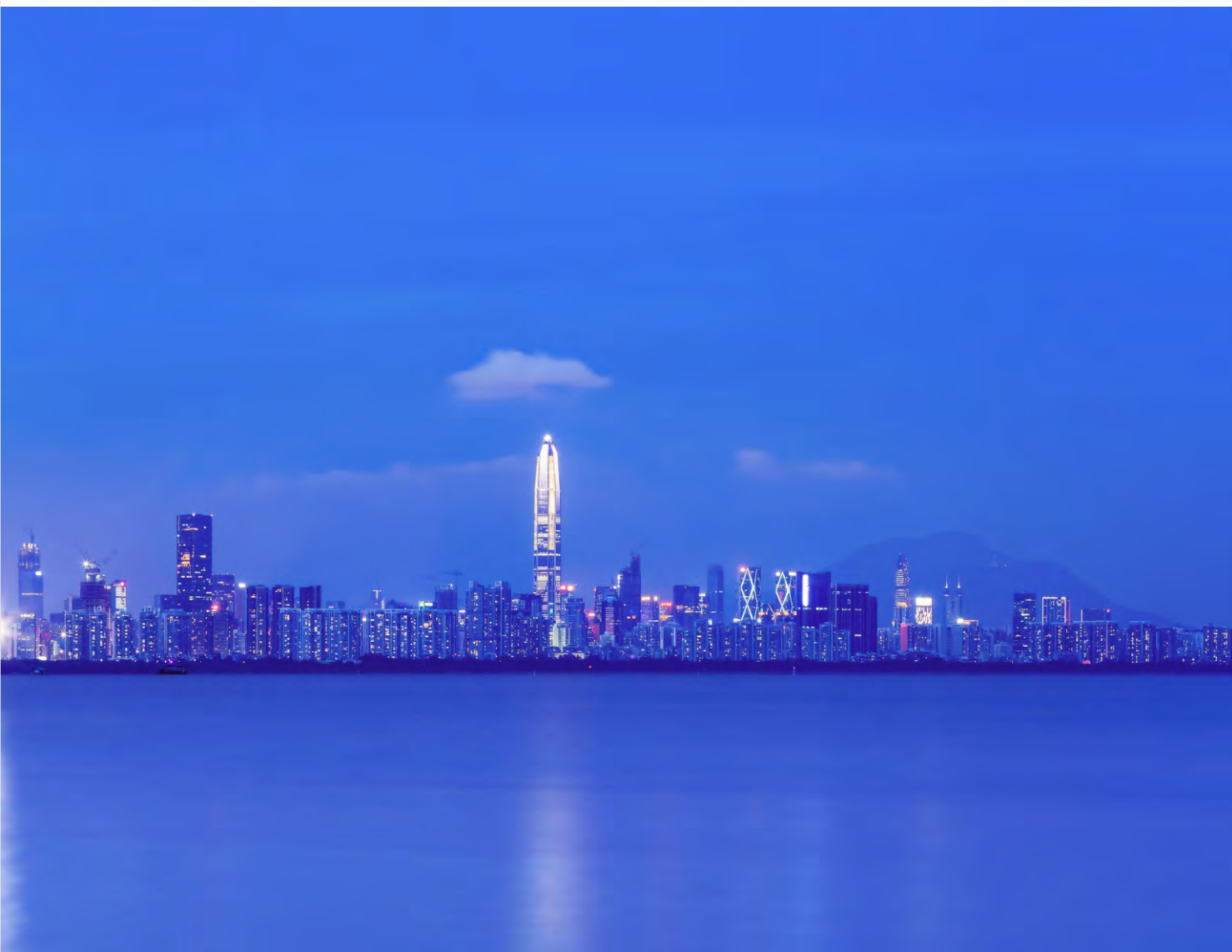
Billboard LED Display

H
series

Fixed LED Display

B3
series

Lamp - post LED Display



L
series

Poster LED Display

C
series

Transparent LED Display

SP
series

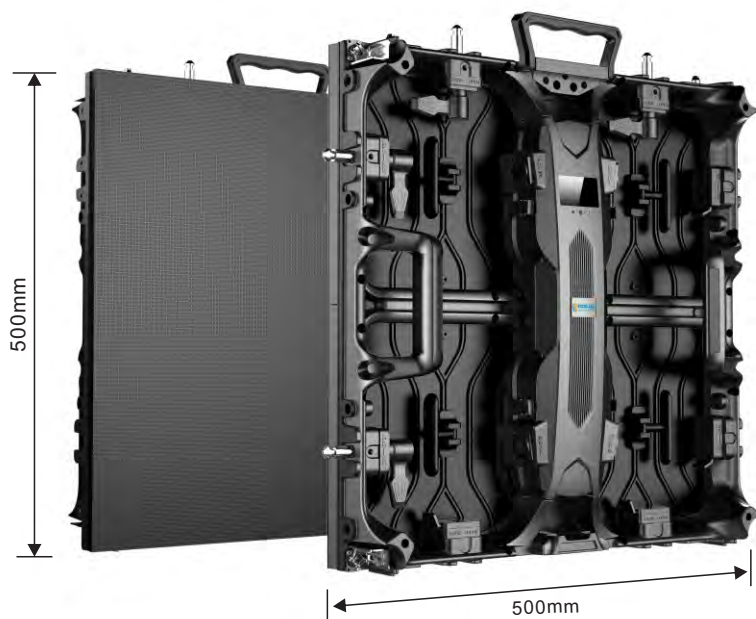
Sports LED Display

L1
series

Logo LED Display

Smart

2020 super model
Design for high-end event



Perfect combination



Easy Installation & Maintenance



Better ROI
(return on investment)



Lighter

» Parameters «

	Indoor				Outdoor		
Value	R2.6	R2.8	R2.9	R3.9	R3.4	R3.9	R4.8
Pixel Pitch (mm)	2.604	2.84	2.976	3.91	3.47	3.91	4.81
Brightness	1000	1000	1000	1000	4500	4500	4500
Pixel Configuration	SMD	SMD	SMD	SMD	SMD	SMD	SMD
Colors	281 trillion	281 trillion	281 trillion	281 trillion	281 trillion	281 trillion	281 trillion
Refresh Rate (Hz)	≥3840	≥3840	≥3840	≥3840	≥3840	≥3840	≥3840
Panel Pixel	192 x 192	176 x 176	168 x 168	128 x 128	144 x 144	128 x 128	104 x 104
Pixel dots Per Sq.m	147456	123904	112896	65536	82944	65536	43264
Viewing Angle (H/V)	140 / 140	140 / 140	140 / 140	140 / 140	140 / 140	140 / 140	140 / 140
Power Consumption (Max / Avg) w/sq.m	710 / 240	710 / 240	710 / 240	710 / 240	710 / 240	710 / 240	600 / 210
IP Rate	Ip40 / IP20	Ip40 / IP20	Ip40 / IP20	Ip40 / IP20	IP65 / IP43	IP65 / IP43	IP65 / IP43
Input Voltage (AC)	110 / 240	110 / 240	110 / 240	110 / 240	110 / 240	110 / 240	110 / 240
Panel Size (mm)	500 x 500 x 88	500 x 500 x 88	500 x 500 x 88	500 x 500 x 88	500 x 500 x 88	500 x 500 x 88	500 x 500 x 88
Module Size (mm)	250 x 250	250 x 250	250 x 250	250 x 250	250 x 250	250 x 250	250 x 250
Panel Weight (Kgs)	7.2	7.2	7.2	7.2	7.5	7.5	7.5

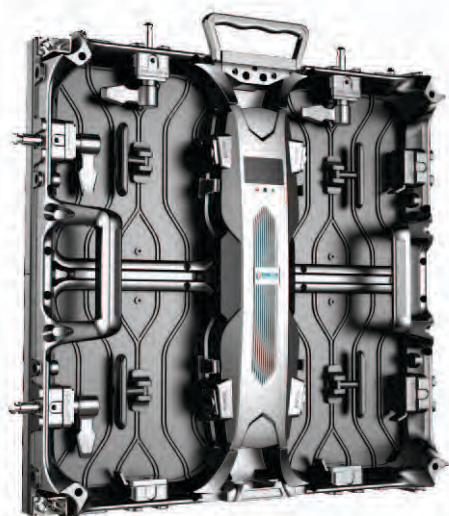
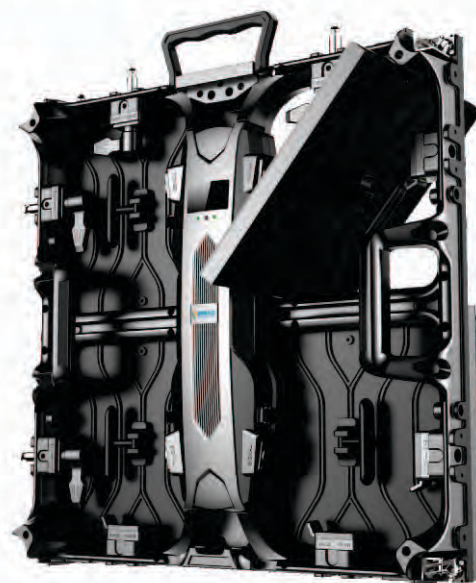
2020
NEW

Front & Rear service

Front and Rear serviceable cableless connection Module, suitable for multi applications .

New cabinet design

Die-casting aluminum cabinet frame applies latest molding workmanship, which ensures its accuracy and durability.

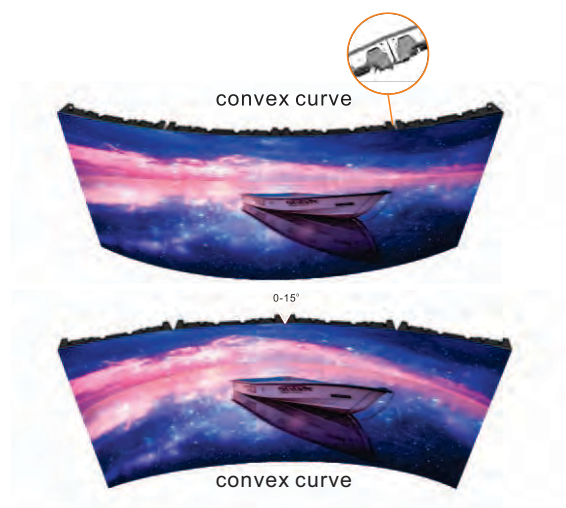


Easy maintenance

Integrated power and signal Individual box,easy and fast to be replaced during Events.

Curve Installation

Advanced Inner and outer curve lock systems
 Curve Installation is available for both 500*500mm
 and 500*1000 mm cabinets



Fast-lock system

- 1、Fast-lock system with ergonomic design.
5 seconds' instant installation
- 2、500*500 mm cabinets and 500*1000mm cabinets
can match each other easily.

Perfect combination



Plastic Flight Case

Smart

2020 super model
Design for high-end event



Parameters

	Indoor				Outdoor		
Value	R2.6	R2.8	R2.9	R3.9	R3.4	R3.9	R4.8
Pixel Pitch (mm)	2.604	2.84	2.976	3.91	3.47	3.91	4.81
Brightness	1000	1000	1000	1000	4500	4500	4500
Pixel Configuration	SMD	SMD	SMD	SMD	SMD	SMD	SMD
Colors	281 trillion	281 trillion	281 trillion	281 trillion	281 trillion	281 trillion	281 trillion
Refresh Rate (Hz)	≥3840	≥3840	≥3840	≥3840	≥3840	≥3840	≥3840
Panel Pixel	192 x 384	176 x 352	168 x 336	128 x 256	144 x 288	128 x 256	104 x 208
Pixel dots Per Sq.m	147456	123904	112896	65536	82944	65536	43264
Viewing Angle (H/V)	140 / 140	140 / 140	140 / 140	140 / 140	140 / 140	140 / 140	140 / 140
Power Consumption (Max / Avg) w/sq.m	710 / 240	710 / 240	710 / 240	710 / 240	710 / 240	710 / 240	600 / 210
IP Rate	Ip40 / IP20	Ip40 / IP20	Ip40 / IP20	Ip40 / IP20	IP65 / IP43	IP65 / IP43	IP65 / IP43
Input Voltage (AC)	110 / 240	110 / 240	110 / 240	110 / 240	110 / 240	110 / 240	110 / 240
Panel Size (mm)	500 x 1000 x 88	500 x 1000 x 88	500 x 1000 x 88	500 x 1000 x 88	500 x 1000 x 88	500 x 1000 x 88	500 x 1000 x 88
Module Size (mm)	250 x 250	250 x 250	250 x 250	250 x 250	250 x 250	250 x 250	250 x 250
Panel Weight (Kgs)	11	11	11	11	13	13	13



2020
NEW

Front & Rear service

Front and Rear serviceable cableless connection Module, suitable for multi applications .

New cabinet design

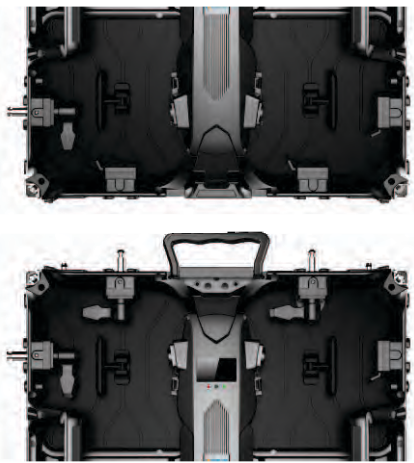
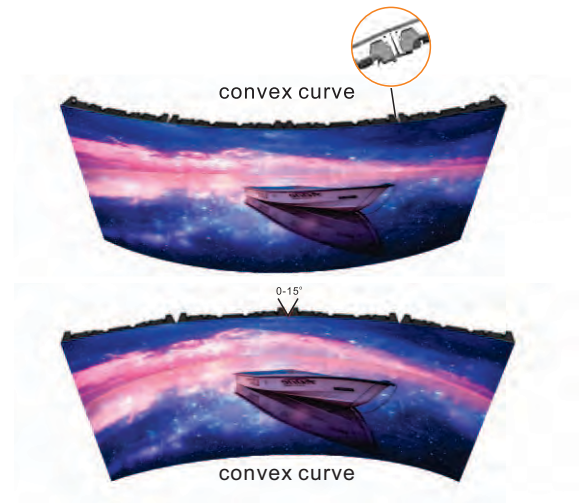
Die-casting aluminum cabinet frame applies latest molding workmanship, which ensures its accuracy and durability.



Curve Installation



Advanced Inner and outer curve lock systems
 Curve Installation is available for both 500*500mm
 and 500*1000 mm cabinets



Fast-lock system



- 1、Fast-lock system with ergonomic design.
5 seconds' instant installation
- 2、500*500 mm cabinets and 500*1000mm cabinets
can match each other easily.

Perfect combination



Plastic Flight Case





Born for Fixed Installation

Lobbies/ Conference Room/ Show Room/ Auditoriums/ Church



» Parameters «

Value	H2	H3	H4
Pixel Pitch (mm)	2.6	3.91	4.81
Brightness	1000	1000	1000
Pixel Configuration	SMD	SMD	SMD
Colors	281 trillion	281 trillion	281 trillion
Refresh Rate (Hz)	≥3840	≥3840	≥3840
Pixel Matrix Per Panel	192x 192	128 x 128	104 x 104
Pixel Matrix Per Sq.m	147456	65536	43264
Viewing Angle (H/V)	140 / 140	140 / 140	140 / 140
Power Consumption (Max / Avg)	710 / 240 w/sq.m	710 / 240 w/sq.m	600 / 210 w/sq.m
IP Rate	Ip40 / Ip20	Ip40 / Ip20	Ip40 / Ip20
Input Voltage (AC)	110 / 240	110 / 240	110 / 240
Panel Size (L x W x H)	500 x 500 x 80	500 x 500 x 80	500 x 500x 80
Panel Weight (Kgs)	4.2(Alu.)	4.2(Alu.)	4.2(Alu.)



Easy Installation

Fastest Installation with 2 Seconds per Cabinet
 Cabinet with Magnet, zero screws installation,
 simple and saving installation time



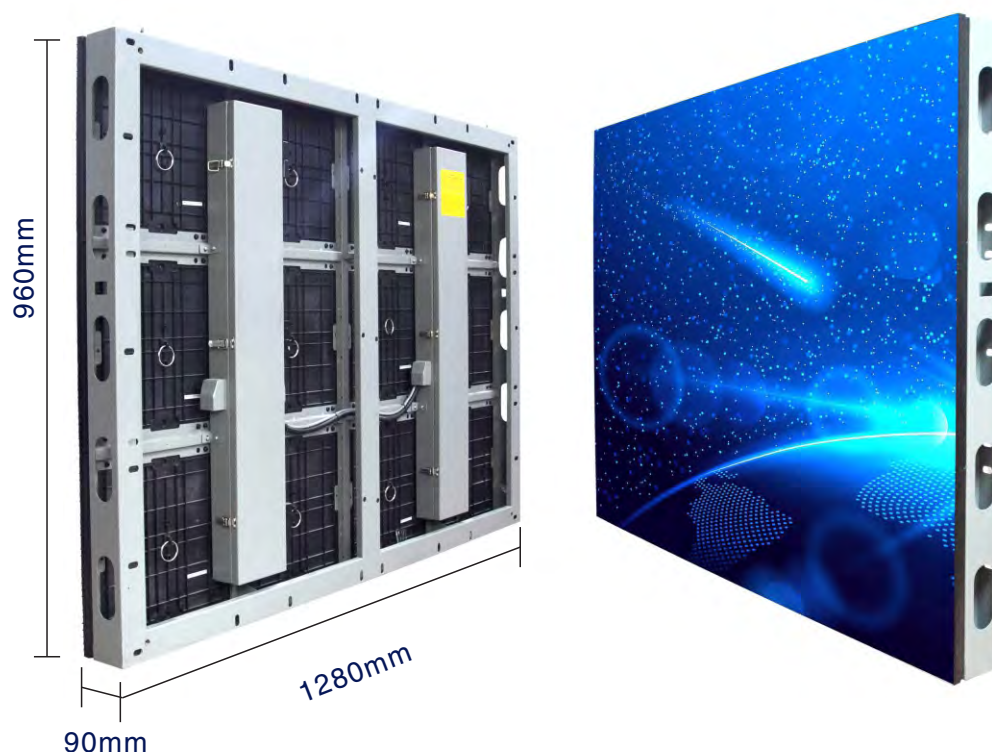
Light weight

Only 4.2KGS per cabinet , Save shipping cost.

B

Billboard LED Display

Chain store/ Shopping mall / Street advertising



Parameters

Value	B8 (SMD)	B10(SMD)	B10(DIP)
PIXEL PITCH(mm)	8	10.667	10.667
PIXEL CONFIGURATION	40*40	30*30	30*30
CABINET SIZE(W*H*D)	1280*960*90	1280*960*90	1280*960*95
NET WEIGHT(/ m2)	35kg	35kg	36kg
VOLTAGE	110/220V	110/220V	110/220V
WATER PROOF	IP65/IP55	IP65/IP55	IP65/IP55
SERVICEABILITY	Rear	Rear	Rear
POWER CONSUMPTION (Max. Avg.)	780W/m2 220W/m ²	700W/m2 220W/m ²	440W/m2 130W/m ²
VIEWING ANGLE(MIN 50% BRIGHTNESS)	140/130	140/130	120/60
BRIGHTNESS	5500CD/m ²	5500CD/m ²	7000 - 10000CD/m ²
PIXEL DENSITY	15625dots/m ²	8790dots/m ²	8790dots/m ²
CONTRAST RATIO	4000:1	4000:1	4000:1
OPERATING TEMPERATURE	-20~55°C	-20~55°C	-20~55°C
OPERATING HUMIDITY	10%-90%	10%-90%	10%-90%
LIFETIME(MIN 50% BRIGHTNESS)	100000	100000	100000
REFRESH RATE	1200	1200	1200

B



Save 75% Power

The most Energy Saving LED Billboard



TRADITIONAL
MODULE

VS



EXCEL LED B SERIES
MODULE

ENCAPSULATED MODULE

SAFER & more STABLE achieves
IP65 military-grade protection level .



35
KG

SAVE YOUR LABOR COST

30% lighter in weight than normal
cabinet design Save 40% of the
cost on steel structure



9.5
CM

A NEW RECORD

for the thickness of outdoor display
40% thinner than Conventional
Normal cabinet design



Ultra narrow one-side door

Brings convenience to maintenance.
Saves the maintenance room.



Smart Cloud Control

Remote Control & Simple
Arrangement

Replacement at 1time makes it 100 times profitable

B series - Ultra light & thin cabinet with anti-wind design, replace the traditional printing advertisements without adding costs of the main structure. EXCEL Outdoor dynamic ads brings 100 times profits than that of traditional printings.

B3

Lamp-Post LED Display / Poster Screen

Fixed installation for street pole advertisement, adding supporting bar for poster advertisement at shopping mall, store



Parameters

Value	B3
Pixel Pitch	3.33mm
LED Configuration	SMD1921
Pixel Density	90010dot/m ²
Module size	160*160mm
Module Resolution	48*48dot
Cabinet Size	680*1640/1800mm ,840*1640/1800mm, 1000*1640/1800/2020mm
IP Rating (front/back)	IP65
Brightness Intensity	5500~6800 CD/m ²
Viewing Angle (H/V)	140°/140°
Power Consumption (Max/Ave)	880W/m ² /270W/m ²
Drive Mode	1/12S
Refresh Frequency	≥1920HZ
Gamma Correction	-5.0~+5.0
Environmental	OUTDOOR
Control Mode	Synchronous display with control PC by DVI
Support Input	Composite,S-Vido,Component,VGA,DVI,HDMI,HD_SDI
Operation Power	AC100~240 50/60HZ
Operating Temperature	-20°C~+50°C
Operating Humidity	10~95% RH
Operating Life	100,000hours

B3

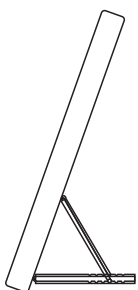
Installation



Side installation



Middle installation



Supporting bar installation

Feature

Ip65 Waterproof

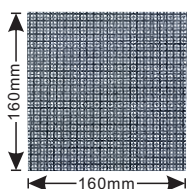
The screen can be used outdoor even against bad weather.

Remote Group Control

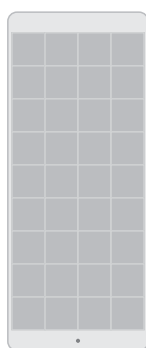
One computer for more screens, keeping all the screen synchronous.

Smart On / Off Function Automatically

The smart on / off automatically can avoid power consumption waste and save cost.

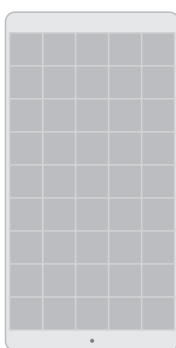


Cabinet be customized
with standard module



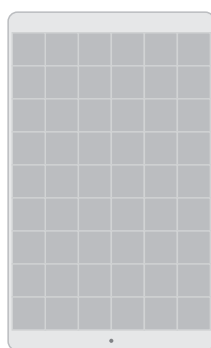
LED screen size :
640*1440mm

Cabinet size:
680*1640mm



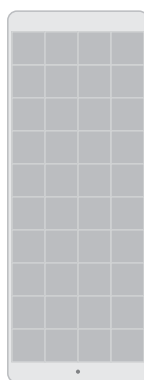
LED screen size :
800*1440mm

Cabinet size:
840*1640mm



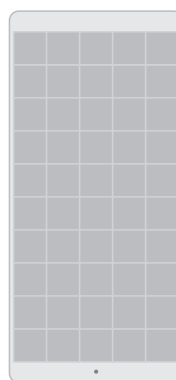
LED screen size :
960*1440mm

Cabinet size:
1000*1640mm



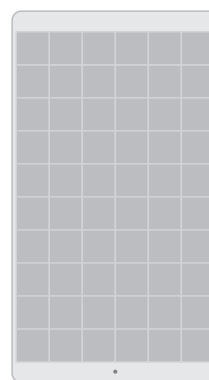
LED screen size :
640*1600mm

Cabinet size:
680*1800mm



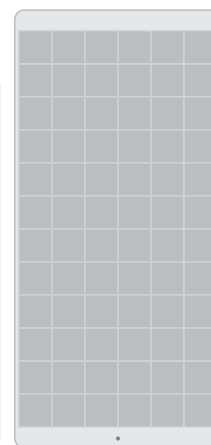
LED screen size :
800*1600mm

Cabinet size:
840*1800mm



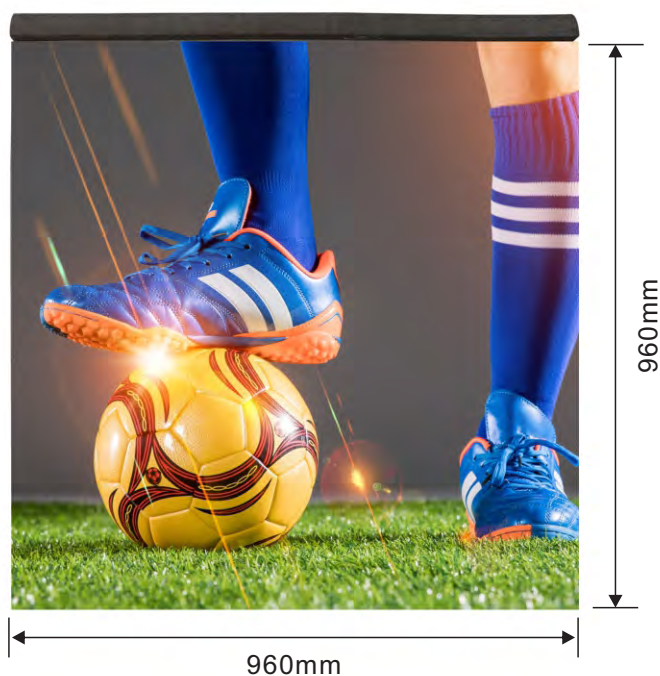
LED screen size :
960*1600mm

Cabinet size:
1000*1800mm



LED screen size :
960*1920mm

Cabinet size:
1000*2020mm



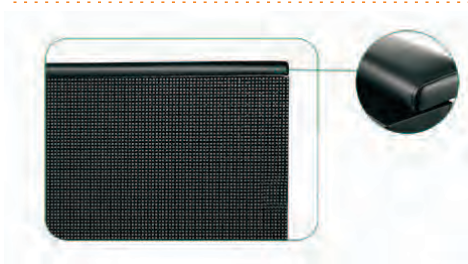
» Parameters «

Value	P6	P8	P10
Pixel pitch	6 mm	8 mm	10 mm
Brightness	6000 nits	6000 nits	6000 nits
Pixel configuration	SMD	SMD	SMD
Gray scale	65536 levels per color	65536 levels per color	65536 levels per color
Refresh rate	≥1920 Hz	≥1920 Hz	≥1920 Hz
Pixel matrix per panel	160×160	120×120	96×96
Pixel matrix per sq.m	27777	15625	10000
Viewing angle (H /V)	140/140 deg.	140/140 deg.	140/140 deg.
Power consumption (Max /Avg)	720/300	720/300	720/300
IP rate	IP65	IP65	IP65
Input voltage (AC)	100/240	100/240	100/240
Panel size (W x H x D)	960 x 960x120mm	960 x 960x120mm	960 x 960x120mm
Panel material	Magnesium	Magnesium	Magnesium
Panel weight	30 Kgs	30 Kgs	30 Kgs
Operating temperature	-20 ~ +60 °C	-20 ~ +60 °C	-20 ~ +60 °C



Seamless with good alignment

1. Product is high brightness, high refresh rate, high IP rating, applicable for both indoor and outdoor sports stadium in different countries;
2. Back-up solution is available;
3. Magnesium alloy cabinet design makes the installation, transportation and maintenance easier;
4. All models in SP series, have same cabinets and modules design, so in the future upgrading, only some parts need to be changed.



Cabinet Safety Design

Cabinet Top cushion that protect the players from Injury.

Waterproof design, protection rate IP65

Ip65 for rear and back side, fit for naked installation without decoration;



Multi-functional

Fixed installation for advertisement, adding flying bar, connectors and fast lock for rental, adding rubber cushion and bracket for perimeter display.

Poster LED Display

Hotel lobby, Shopping mall, Store, Banking hall, Office and private reception



» Parameters «

	MODEL	P2.5
LAMP	LED Type LED	SMD(2020)
MODULE	Pixel pitch	2.5mm
	LED module size led	210mm*280mm
	Resolution(H×W)	81×108
	LED driving method	1/27dynamic scan
CABINET	LED module layout (H×W)	9×2
	Resolution(H×W)	729×216
	Cabinet area	1.059m ²
	Cabinet size	1897×571×33mm
	Net.weight/set	26/kg
	Ingress Protection	Front IP40/Rear IP40
	Power	AC 240V/100±10%
DISPLAY	Max.Power consumption	390w
	Avg.Power consumption	100w
	Viewing Angle(H/V)	160°/160°
	Brightness	1000cd/m ²
	Pixel density(pixel/cabinet)	157464
	Contrast ratio	3,000:1
	Temperature/Humidity(Operation/storage)	-20°Cto +45°C; 10% to 90
	Lifetime(50% brightness)	100,000 hours
	Proceessiong	16bit
	Colors	281trillion
	Refresh rate	≥3840Hz
	Frame rate	60fps
	Brightness level	Manually/Auto/Programmable

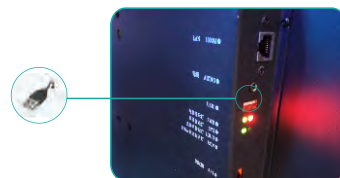


Super slim and lightweight design

slim and elegant design, with thickness 33mm, weight only 26kg,
easy to set up and install anywhere you like

Plug and play

User friendly interface, easy to edit and send
content to the display.



Smart management

Easily upload content via WIFI, USB or HDMI, and manage
hundreds of displays with one device from anywhere.

C Transparent LED Screen

Commercial Street, Airports, Museums, Exhibitions, Shopping Malls, Supermarkets, Theaters



» Parameters «

Value	C3	C7
Pixel Pitch (mm)	3.91-7.82	7.82-7.82
Brightness	1200	1200
Pixel Configuration	SMD	SMD
Colors	281 trillion	281 trillion
Refresh Rate (Hz)	≥1920	≥1920
Pixel Matrix Per Panel	256 x 128	128 x 128
Pixel Matrix Per Sq.m	32768	16384
Viewing Angle (H/V)	140 / 140	140 / 140
Power Consumption (Max / Avg)	300 / 100 w/sq.m	300 / 100 w/sq.m
IP Rate	IP40 / IP20	IP40 / IP20
Input Voltage (AC)	110 / 240	110 / 240
Panel Size (L x W x H)	1000x1000x80 mm	1000x1000x80 mm
Panel Weight (Kgs)	15 (Alu.)	15 (Alu.)



Ultralight design

Ultra-light cabinet, thickness 80mm, only 12-15kg.

High-transparent

Over 85% of the perspective effects make the glass retain the function of lighting perspective.

Fast installation

This product is directly attached to the glass curtain wall without changing any building structure.

Aluminum frame design

All aluminum frame design, combine technology with, beautiful and safe.

Easy maintenance

Indoor maintenance, fast and safe, save manpower and material resources.



Ultra-energy-saving

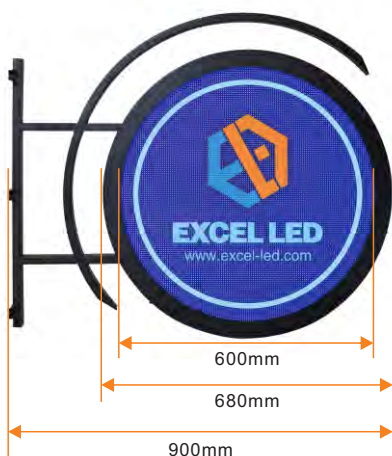
No need the traditional refrigeration system and air conditioning, energy-saving over 35% than the traditional led display.



L1

Logo LED Display

Coffee shops, Bars, Stores, etc.



Parameters

Value	P4.6
Pixel composition	1R1G1BLED (SMD1921)
Pixel pitch	4.6mm
Module size	300mm*300mm
module resolution	64*64
Display density	128*128dot/side
Maximum white balance brightness	≥4500cd/m2
Gray level	Red, green, and blue ≥256 levels, up to 65536 levels
Out of control points	≤1/10000
Optimal viewing distance	≥4.68M
Viewing angle	Level ≥120° Vertical ≥120°
Refresh rate	≥1920HZ
Control method	Asynchronous/synchronous(wifi/4G Cloud service/computer etc)
Waterproof grades and materials	Ip65
Lifetime	≥100,000 hours
Operation Voltage	AC 110V-220V±15%, 50HZ±2HZ
Environmental temperature and humidity	Temperature :-20OC~+60OC, Humidity :10%-95%
Smoothness	adjustment image between ≤ 0.5mm; module splicing gap ≤ 0.5mm
Power consumption(max/aver)	400W / Pcs
Maintenance method	Front - maintenance
Screen weight	≤ 16Kg / pcs
Switching power supply	5V/60A



Smart management

Easily upload content via WIFI, and manage hundreds of displays with one device from anywhere.

Product features

- 1、Simple and easy to installation
- 2、Protection level is up to IP65, which makes L1 series easily used for indoor, outdoor and other situations.
- 3、Simple maintenance

Showcase



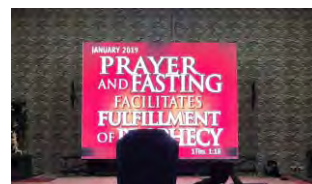
Location: Nigeria
Product: Indoor P4.81
Model No.: R4



Location: Nigeria
Product: Indoor P3.91
Model No.: R3



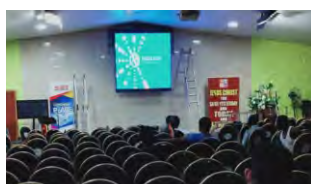
Location: Nigeria
Product: Indoor P3.91
Model No.: R3



Location: Nigeria
Product: Indoor P3.91
Model No.: R3



Location: Nigeria
Product: Indoor P3.91
Model No.: R3



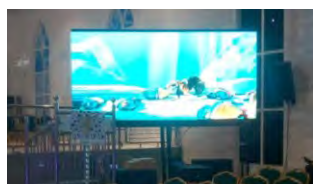
Location: Nigeria
Product: Indoor P3.91
Model No.: R3



Location: Nigeria
Product: Indoor P3.91
Model No.: R3



Location: Nigeria
Product: Indoor P2.5
Model No.: L2.5



Location: Nigeria
Product: Indoor P3.91
Model No.: R3



Location: Nigeria
Product: Indoor P3.91
Model No.: R3



Location: Nigeria
Product: Outdoor P4.81
Model No.: R4



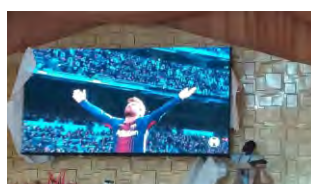
Location: Nigeria
Product: Outdoor P3.91
Model No.: R3



Location: Nigeria
Product: Indoor P6
Model No.:



Location: China
Product: Indoor P2.5
Model No.: M2



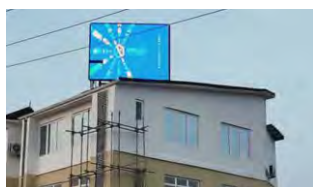
Location: Nigeria
Product: Indoor P3.91
Model No.: R3



Location: Nigeria
Product: Indoor P3.91
Model No.: R3



Location: Nigeria
 Product: Outdoor P10
 Model No.:B10



Location: Nigeria
 Product: Outdoor P10
 Model No.:B10



Location: Nigeria
 Product: Outdoor P10
 Model No.:B10



Location: Guiyang ,China
 Product: Outdoor P8
 Model No.:B8



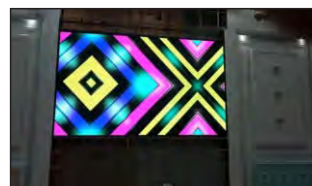
Location: Nigeria
 Product: Outdoor P4.81
 Model No.: R4



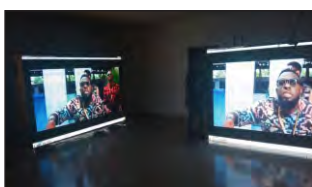
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 Product: Indoor P4.81
 Model No.: R4



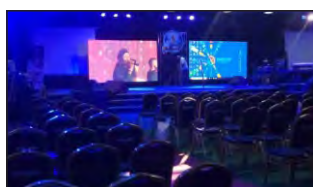
Location: Nigeria
 Product: Indoor P3.91
 Model No.: R3



Location: Nigeria
 Product: Indoor P3.91
 Model No.: H3



Location: Nigeria
 Product: Indoor P4.81
 Model No.:R4



Location: Nigeria
 Product: Indoor P4.81
 Model No.:R4



Location: Nigeria
 Product: Indoor P4.81
 Model No.: R4



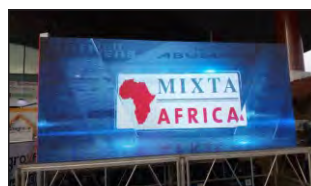
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 Product: Indoor P3.91
 Model No.: H 3



Location: Nigeria
 Product: Indoor P3.91
 Model No.: H3



Location: Nigeria
 Product: Indoor P4.81
 Model No.: R4



Location: Nigeria
 Product: Indoor P4.81
 Model No.: R4



Location: Nigeria
 Product: Indoor P4
 Model No.: H4

Exhibition review

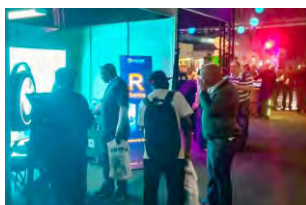
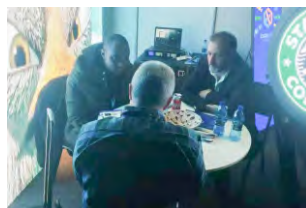


Nigeria

Nigeria

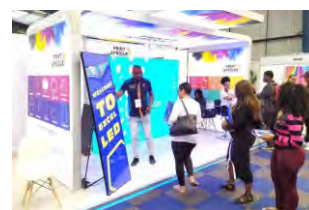


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