

| Parameters         | PL1.9                | PL2.5 Pro  | PL2.9      | PL3.9      | PL3.9 Pro               | PL4.8      | PL4.8 Pro               | PL4.8 XL     | PL6.9 XL   | Unit         |
|--------------------|----------------------|------------|------------|------------|-------------------------|------------|-------------------------|--------------|------------|--------------|
| Pixel Pitch        | 1.95                 | 2.5        | 2.97       | 3.9        | 3.9                     | 4.8        | 4.8                     | 4.8          | 6.94       | Millimeter   |
| Brightness         | 600                  | 1,200      | 1,000      | 6,000      | 5,000                   | 5,000      | 5,000                   | 5,000        | 5,000      | nit          |
| Panel Dimensions   | 500*500*87           | 500*500*87 | 500*500*87 | 500*500*87 | 500*500*87              | 500*500*87 | 500*500*87              | 500*1,000*87 |            | Millimeter   |
| Panel Material     | Die casting Aluminum |            |            |            |                         |            |                         |              |            | —            |
| Panel Weight       | 9                    | 9.4        | 9          | 9.5        | 9.5                     | 9.5        | 9.5                     | 11           | 11         | Kg / Panel   |
| Pixels             | COB                  | SMD 1515   | SMD 2121   | SMD 1921   | Common Cathode SMD 1921 | SMD 1921   | Common Cathode SMD 1921 | SMD 1921     | SMD 1921   | —            |
| Module Size        | 250*250              |            |            |            | 500*250                 |            |                         |              | Millimeter |              |
| Panel Resolution   | 256*256              | 200*200    | 168*168    | 128*128    | 128*128                 | 104*104    | 104*104                 | 104*208      | 72*144     | Pixels       |
| Pixel Density      | 262144               | 160000     | 112896     | 65536      | 65536                   | 43264      | 43264                   | 43264        | 20734      | Pixels / sqm |
| Refresh Rate       | 1920                 | 3840       | 3840       | 1920       | 3840                    | 3840       | 3840                    | 3840         | 3840       | Hertz        |
| Grayscale          | 8192                 | 16384      | 16384      | 16384      | 16384                   | 16384      | 16384                   | 16384        | 16384      | Grade        |
| Viewing Angle(H/V) | 170/170              | 150/140    | 150/130    | 150/130    | 140/120                 | 140/110    | 140/120                 | 140/120      | 140/120    | Degree       |
| Ingress Protection | IP54/IP21            | IP40/IP21  | IP40/IP21  | IP65/IP54  | IP65/IP54               | IP65/IP54  | IP65/IP54               | IP65/IP54    | IP65/IP54  | —            |
| Power(max/ ave.)   | 510/170              | 510/170    | 450/150    | 600/200    | 750/250                 | 540/180    | 750/250                 | 600/200      | 600/200    | Watts / sqm  |
| Drive mode         | 1/32                 | 1/20       | 1/28       | 1/8        | 1/8                     | 1/13       | 1/7                     | 1/13         | 1/4        | —            |
| Maximum Hanging    | 20                   | 20         | 20         | 20         | 20                      | 20         | 20                      | 10           | 10         | Panels       |



# POLARIS

Assemble Your Task Force

# POLARIS MODELS

## — PL1.5 PRO + PL1.9

### LED That Doesn't Break Its Promise

Absen COBALT with NanoShield technology – the first truly viable solution to the physical demands of 1mm rental display applications

## — PL2.5 PRO + PL2.9

### Take It Black and Do It Right

The optimal way to configure 2mm high performance rental displays – perfectly balanced for extreme contrast and high pixel protection

## — PL3.9 PRO + PL4.8 PRO

### Beautiful On The Outside. Beautiful On The Inside

Absen High Brightness Black (HBB) technology – finally, a high resolution indoor and outdoor rental display that doesn't compromise on brightness, contrast or stability

## — PL3.9 + PL4.8

### Get Closer To The Action

Flexible and efficiently sized for high resolution outdoor display applications that demand more pixels and closer viewing

## — PL4.8 XL + PL6.9 XL

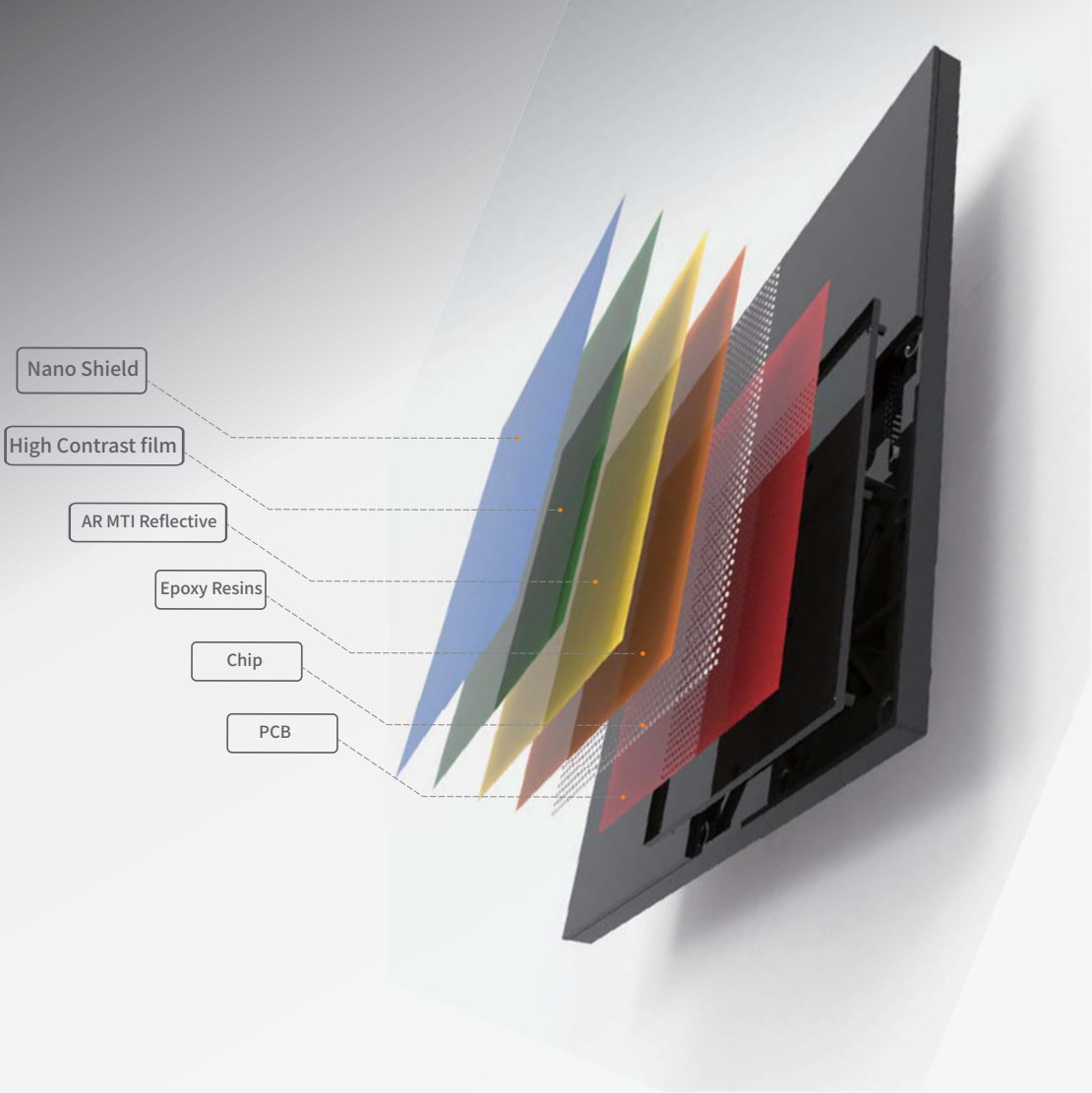
### Lighten Up and Go Large

Super lightweight and twice the size, perfect for the operational demands of extra large outdoor display applications

| INDOOR  |     | INDOOR  |           | INDOOR/<br>OUTDOOR  |     | OUTDOOR   |     | OUTDOOR   |       |
|---|-----|---|-----------|---|-----|---|-----|---|-------|
| COBALT  |     | SMD   |           | HBB   |     | SMD   |     | SMD   |       |
| 1.5   | 1.9 | 2.5   | 2.9       | 3.9   | 4.8 | 3.9   | 4.8 | 4.8XL   | 6.9XL |
| Pro   | –   | Pro   | –         | Pro   | Pro | –   | –   | –   | –     |
| CUVER BLOCK:<br>0°, +5°   |     | CUVER LOCK : -7.5 , -5 , -2.5,0 , +2.5 , +5 , +7.5~+10                              |           |   |     |   |     |   |       |
|  |     |  |           |  |     |  |     |  |       |
| 500x500x87 mm   |     | 500x500x87 mm   |           | 500x500x87 mm   |     | 500x500x87 mm   |     | 500x1,000x87 mm   |       |
| 600 nit   |     | 1,200 nit   | 1,000 nit | 5,000 nit   |     | 5,000 nit   |     | 5,000 nit   |       |
| 9 Kg / Panel  |     | 9.6 Kg / Panel  |           | 9.5 Kg / Panel  |     | 9.5 Kg / Panel  |     | 11 Kg / Panel   |       |
| A8S   |     | A8S   |           | A5S   |     | A5S   |     | A5S   |       |
| TUV-CE,FCC,ETL  |     | TUV-CE,FCC,ETL  |           | TUV-CE,FCC,ETL  |     | TUV-CE,FCC,ETL  |     | TUV-CE,FCC,ETL  |       |

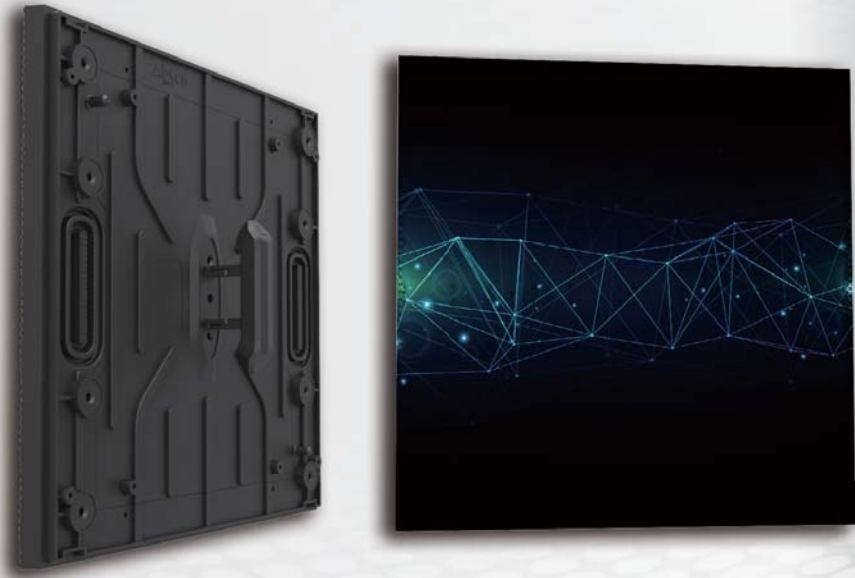
# NXTGEN | COBALT

Embrace The Future



# NXTGEN | HBB

Embrace The Future







1

## PL1.5 PRO + PL1.9 LED That Doesn't Break Its Promise

Absen COBALT with NanoShield technology - the first truly viable solution to the physical demands of 1mm rental display applications

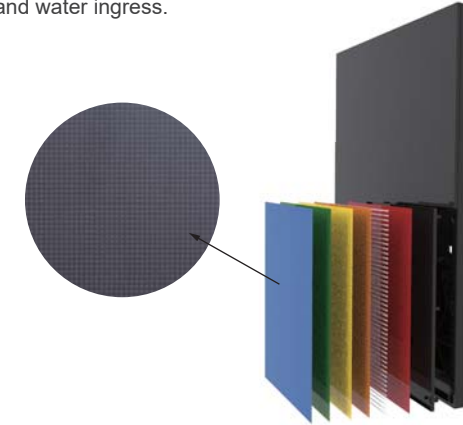


## Pixel Protection

Surface bonded and solid state, Absen COBALT LED diodes are encapsulated with unique NanoShield technology;

A durable anti-reflective epoxy resin coating that delivers the ultimate in physical impact protection. Furthermore, our unique NanoShield coating provides surface electronics with enhanced IP54 rated protection from dust, moisture and water ingress.

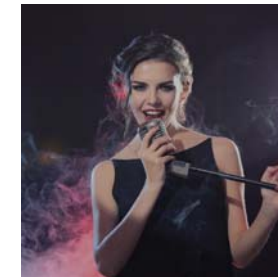
durable anti-reflective epoxy resin coating that delivers the ultimate in physical impact protection.



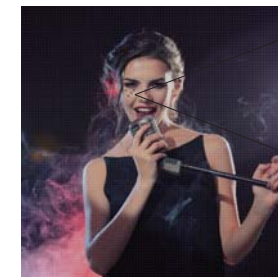
## Lower Failure

Advanced COBALT production technologies completely eliminate the high temperature processes used in traditional SMD LED production that cause instability

The result. Next generation LED performance that lowers pixel failure rates by up to 50%



COBALT



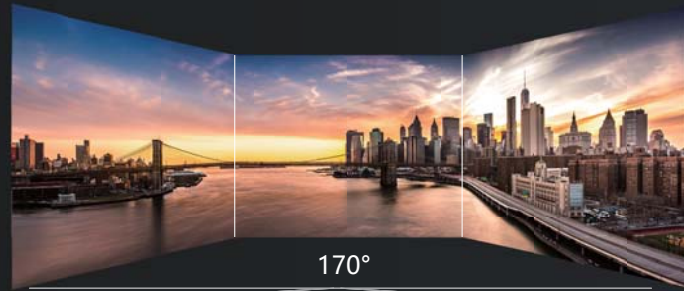
SMD





## Wide Viewing Angle

Absen COBALT surface encapsulation techniques and advanced NanoShielded coating technologies deliver ultimate colour and brightness uniformity at extreme angles up to 175°



COBALT Display



SMD Display



## Seam Blending

Absen COBALT and our advanced NanoShield coating technologies optimise surface light distribution resulting in optical seam-blending that virtually eliminates dark and bright lines at mechanical joints

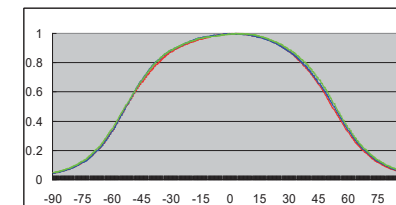
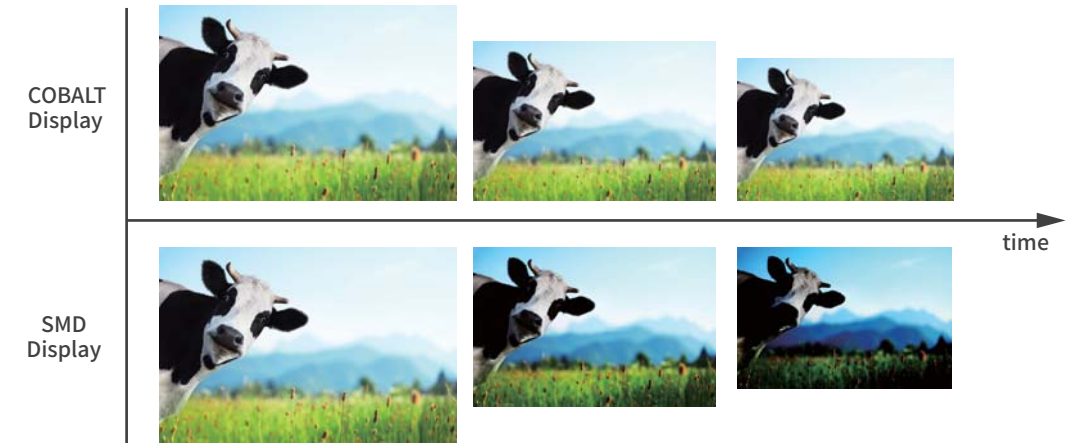


## Color Attenuation

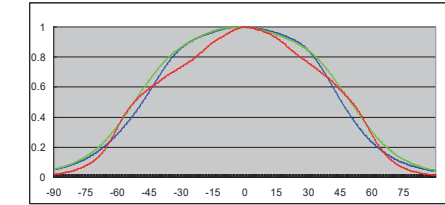
Absen COBALT utilises high grade semi-conductor chips and our advanced NanoShield encapsulation processes prevent material contamination, maintaining higher purity levels and delivering ultimate colour performance

Furthermore, our enhanced heat dissipation design lowers attenuation, maintaining a higher brightness and colour consistency over time

Absen COBALT achieves an ultra-wide colour gamut of NTSC114% and advanced pixel-by-pixel calibration technology eliminates brightness inconsistencies for the ultimate viewing experience



COBALT RGB Attenuation



SMD RGB Attenuation



2

## PL2.5 PRO + PL2.9

### Take It Black and Do It Right

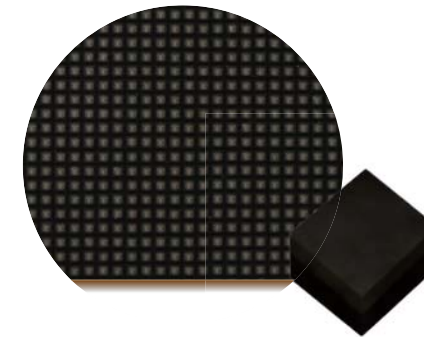
The optimal way to configure 2mm high performance rental displays – perfectly balanced for extreme contrast and high pixel protection



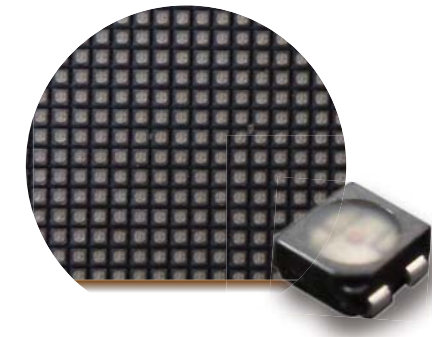
## UltraBlack Technology

Small sized non-reflection LEDs, combined with matte and super black mask, the PL2.5 Pro has a superior contrast compared to other LED products.

Manufactured by top tier encapsulation companies, the LEDs are providing state of the art performance in terms of uniformity, non-reflection, in both regular and wide viewing angles. The stringently controlled gluing process ensures high level of uniformity on LED surface as well as super wide viewing angle. The high quality epoxy used is the key to deliver a matte surface, which will dramatically reduce reflection even under direct light. The highest standard of aging test has proven a reliable quality and high uniformity over long time of use, with a failure rate of 30PPM only after the extreme test.



PL 2.5 Pro SMD 1515



P2.6 SMD 2121

3

## PL3.9 PRO + PL4.8 PRO

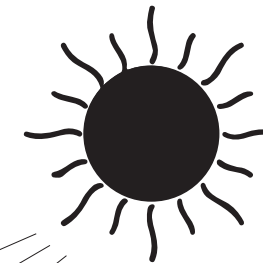
Beautiful On The Outside. Beautiful On The Inside  
Absen High Brightness Black (HBB) technology – finally, a high resolution indoor and outdoor rental display that doesn't compromise on brightness, contrast or stability



## High Contrast & Brightness

Outdoor 1921 HBB with brightness up to 5000nit and contrast ratio of 8000:1.

Ultra high contrast and distinct color hierarchy ensure excellent visual effect outdoors



Others



1921 HBB  
8000:1 5000nit

5000nit HBB for outdoor use under sunlight.

LED common cathode technology improves brightness with better heat dissipation.

## Color Uniformity

Precise dual power output of 2.8V and 3.8V mitigates the heat dissipation problems in LED operation with voltage drop and increases the luminous efficiency of red light.

Die-casting AL cabinet with heat plate designed for IC driver layout guarantee extraordinary heat dissipation, color consistency and uniformity.



## High Resolution

HD outdoor 3.9mm HBB fits for indoor and outdoor applications.



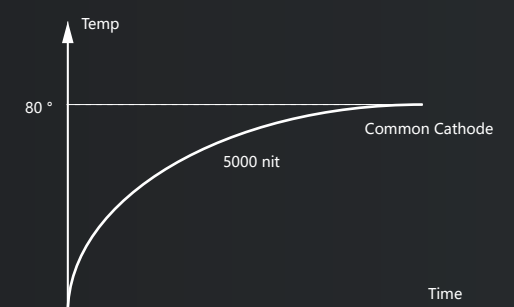
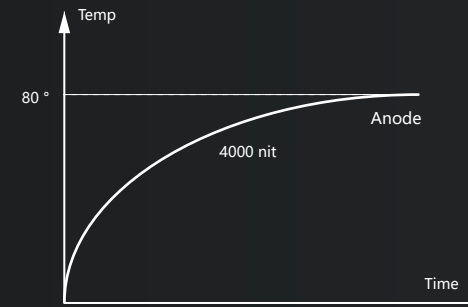
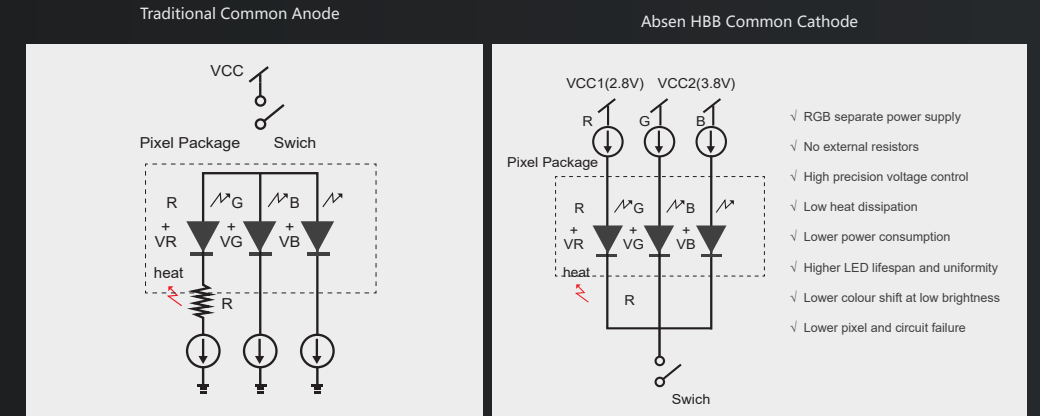
Outdoor



Indoor

## 20% - Lower Heat, 20% + Higher Brightness

Standing for High Brightness Black, Absen HBB utilises Absen Common Cathode technology, a powerful solution for driving high resolution black LED at ultra high brightness



Operating Temperature: 50°C 24H White display



**BETTER  
VISUAL  
PERFORMANCE**

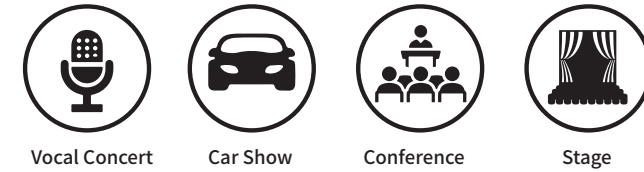


## Viable indoor & outdoor solution

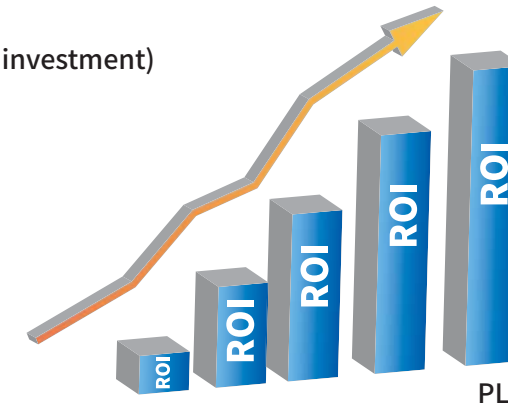
– Higher Utilisation



– Support More Applications



– Better ROI( return on investment)







4

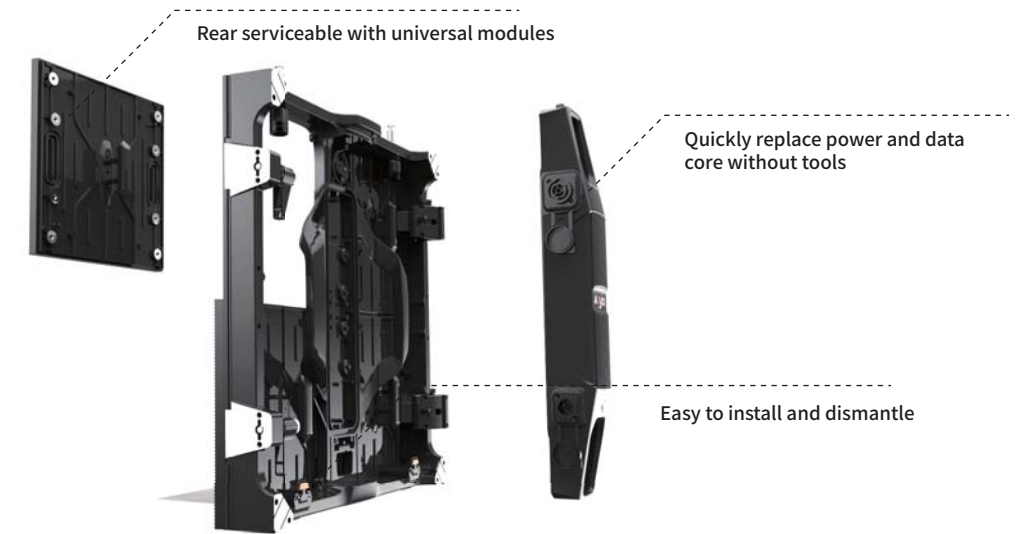
## PL3.9 + PL4.8

Get Closer to The Action

Flexible and efficiently sized for high resolution outdoor display applications that demand more pixels and closer viewing



## Made For Mobile



## Need More Curves

In addition to the integrated curves...  
Curving brackets are available:







5

## PL4.8 XL + PL6.9 XL

Lighten Up and Go Large

Super lightweight and twice the size, perfect for the operational demands of extra large outdoor display applications



## Lightweight



① Panel weight only

**11Kg**

② More than

**20% LIGHTER**

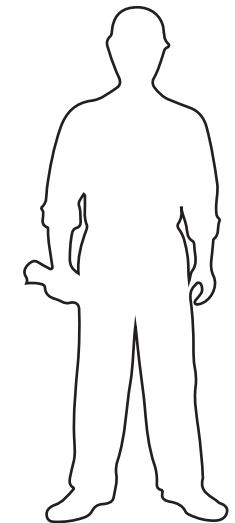
than regular products



## Quick

① One man installation

② Quickly service power box





# Advanced Auto-Lock and Auto-Eject systems

- Auto-locking Vertical Lock System With Magnetic Auto-connection For Fast And Easy 1 Man Installation With Ultimate Safty And Pixel Procection
- Auto-ejection Side Lock System Enables Super Fast, Easy And Convenient Disconnection Of Panels

**1** >> Panels will be attached together by magnets automatically.



**2** >> Hold the bottom of the Panels upward.



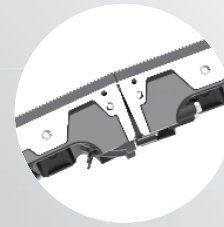
**3** >> Pull the knob of top lock system to lock the Panels.



# Advanced (Except for PL1.5 pro and PL1.9) inner and outer curve lock systems

— Innovative integrated repositionable curve connection block system maintains the highest level of alignment accuracy, in both flat or curve configuration.

Curve connection blocks are available to support any increment of curve from -7.5 covex to +45 concave giving users unlimited design flexibility and control



## Fast rear service



Pull the Handle



Push-then-Pull Modules



Pull the Module from Rear

# Additional benefits

Momento Cliente

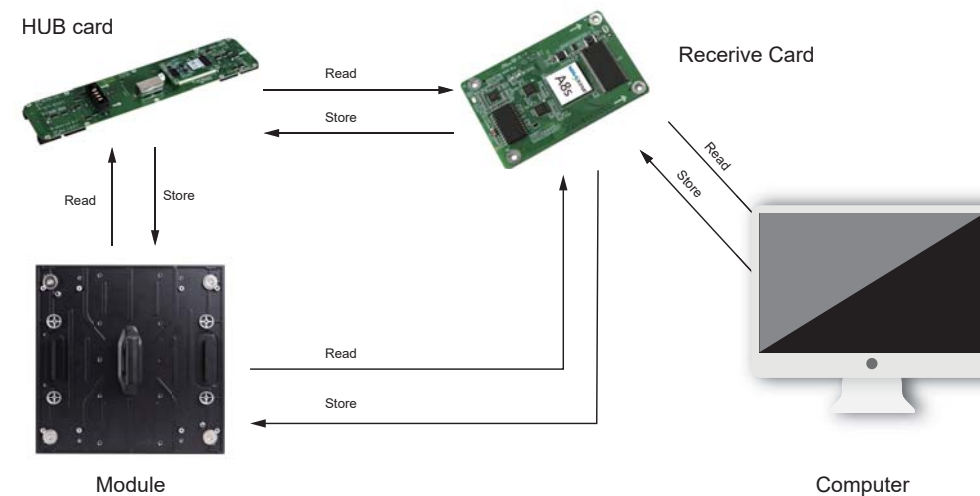
Momento Cliente

CBX

1

## Memory on Module/Hub

Calibration data stored in both module /Hub and receiving card, no need re-calibration after replacement



2

## Processing

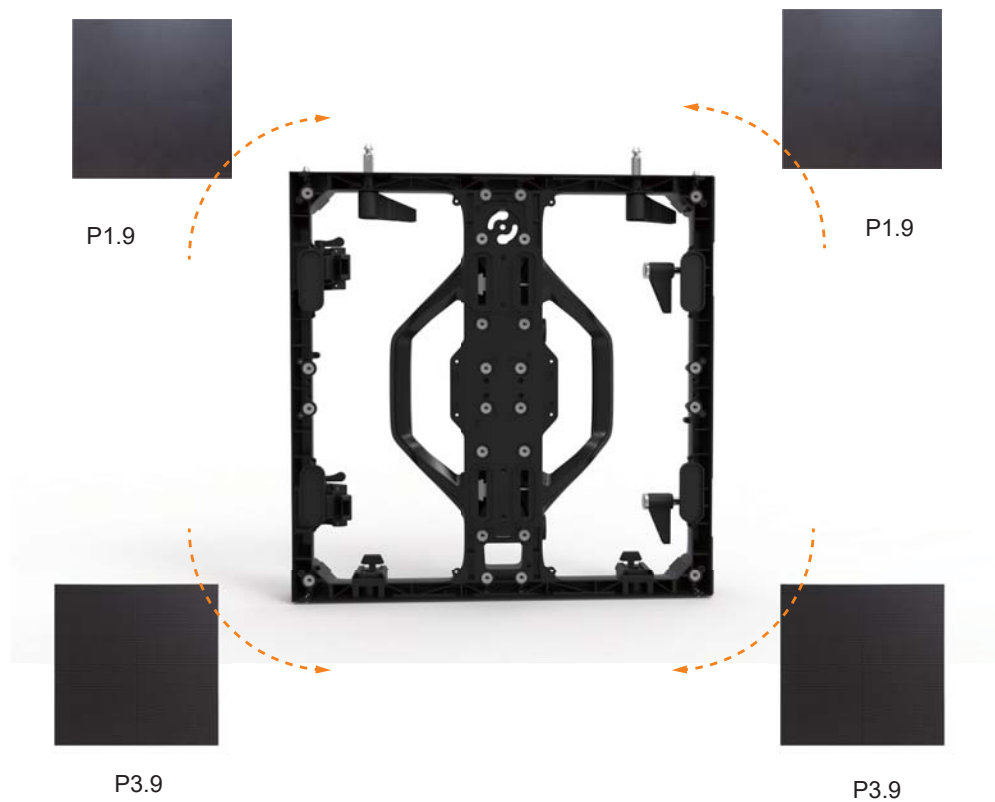
Premium image quality, 4K processing





### 3 Advanced calibration and uniformity

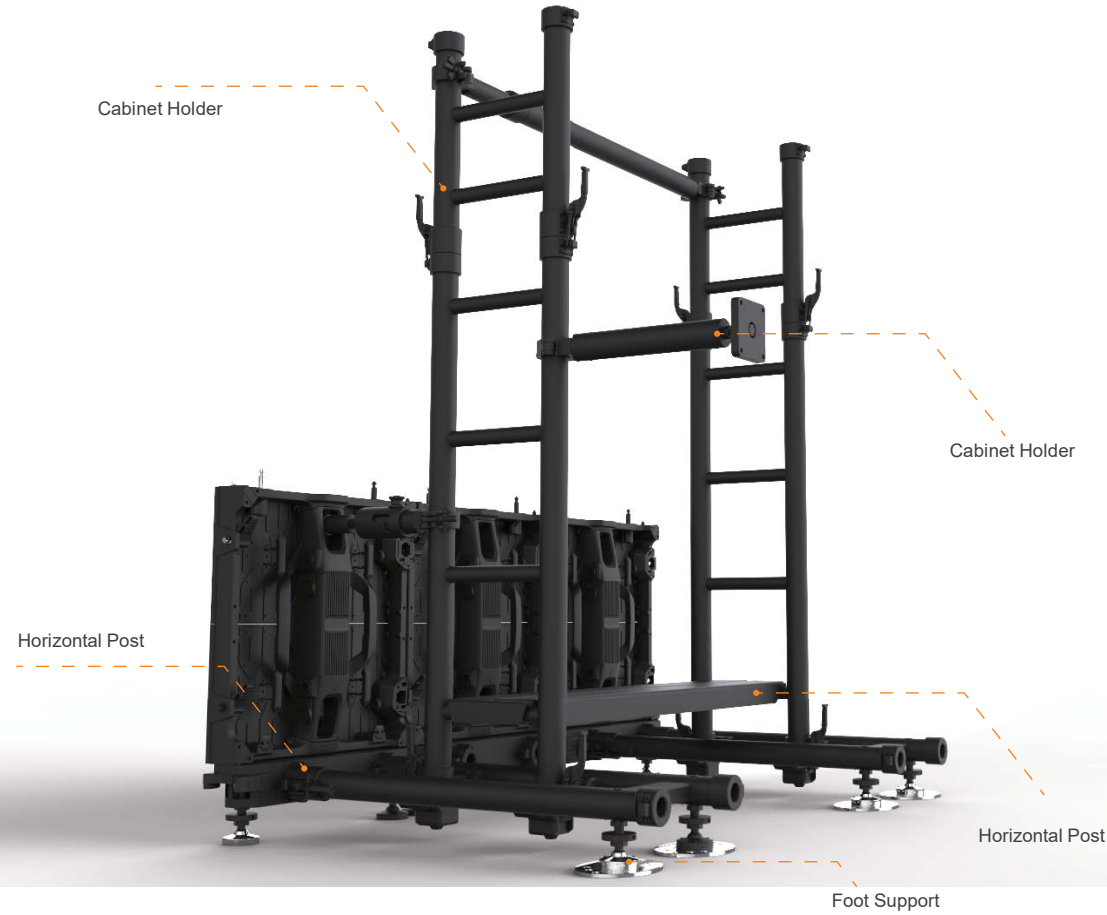
Refresh rate up to 3840Hz, delivers extraordinary image quality even at 1/3000 high-speed camera, with no flickering, perfectly meet the high demand of switching pictures smoothly at broadcasting.



### 4 Advanced flight case with pixel-protection

# 5 Advanced stacking system

Drop, pop, and lock ground support for quick and easy floor installation.



## 8+ Overseas Subsidiaries

USA Germany UAE Russia Mexico Brazil Japan HK



### Network System

Whole network system makes life easier



### Platform

Build platform for more active interaction



### Customized

Customized products for clients

