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<tr>
<th>Parameters</th>
<th>PL1.9</th>
<th>PL2.5 Pro</th>
<th>PL2.9</th>
<th>PL3.9 Pro</th>
<th>PL4.8</th>
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<th>PL4.8 XL</th>
<th>PL6.9 XL</th>
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<td>6,000</td>
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<td>500<em>1,000</em>17</td>
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<tr>
<td>Product</td>
<td>CoG</td>
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<tr>
<td>Viewing Angle(H/V)</td>
<td>170°/70°</td>
<td>150°/150°</td>
<td>150°/150°</td>
<td>140°/130°</td>
<td>140°/130°</td>
<td>140°/130°</td>
<td>140°/130°</td>
<td>140°/130°</td>
<td>Degree</td>
</tr>
<tr>
<td>ingress protection</td>
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<td>Power(ma/sq.)</td>
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<td>520/170</td>
<td>520/170</td>
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<td>520/170</td>
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<td>20</td>
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<td>20</td>
<td>Panels</td>
</tr>
</tbody>
</table>

**POLARIS**

Assemble Your Task Force

**Trusted LED Supplier**
### POLARIS MODELS

#### PL1.5 PRO + PL1.9
LED That Doesn’t Break Its Promise
Abate COBALT with SMD technology - the first truly viable solution to the physical demands of 2mm 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
Alters High brightness (black-black) 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
Fle later and efficiently sized for high resolution outdoor display applications that demand more pixels and closer viewing.

#### PL4.8 XL + PL6.9 XL
Lighter Up and Go Large
Super lightweight and twice the size, perfect for the operational demands of extra large outdoor display applications.

<table>
<thead>
<tr>
<th></th>
<th>INDOOR</th>
<th>INDOOR</th>
<th>INDOOR/OUTDOOR</th>
<th>OUTDOOR</th>
<th>OUTDOOR</th>
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<tr>
<td></td>
<td>COBALT</td>
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<td>HBB</td>
<td>SMD</td>
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<tr>
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<td>3.9</td>
</tr>
<tr>
<td>Pro</td>
<td>–</td>
<td>Pro</td>
<td>–</td>
<td>Pro</td>
<td>–</td>
</tr>
</tbody>
</table>

**CUVER BLOCK:**
0°, +5°

**CUVER LOCK:**
-7.5°, -5°, -2.5°, 0°, +2.5°, +5°, +7.5° to +10°

<table>
<thead>
<tr>
<th>Size</th>
<th>500x500x87 mm</th>
<th>500x500x87 mm</th>
<th>500x500x87 mm</th>
<th>500x500x87 mm</th>
<th>500x1,000x87 mm</th>
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<tbody>
<tr>
<td></td>
<td>600 nit</td>
<td>1,200 nit</td>
<td>1,000 nit</td>
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</tr>
<tr>
<td>9 Kg / Panel</td>
<td>9.6 Kg / Panel</td>
<td>9.5 Kg / Panel</td>
<td>9.5 Kg / Panel</td>
<td>9.5 Kg / Panel</td>
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</tr>
<tr>
<td>ABS</td>
<td>ABS</td>
<td>ASS</td>
<td>ASS</td>
<td>ASS</td>
<td>ASS</td>
</tr>
</tbody>
</table>
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.

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

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.

Wide Viewing Angle

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 joins.

Color Attenuation

Absen COBALT RGB Attenuation

SMD RGB Attenuation
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.
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.

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.

---

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

- RGB separate power supply
- No external resistors
- High precision voltage control
- Lower power consumption
- Lower heat dissipation
- Lower colour shift at low brightness
- Lower pixel and circuit failure

---

Operating Temperature: 50°C  24H White display
**Viable indoor & outdoor solution**

- Higher Utilisation

![Indoor + Outdoor](indoor-outdoor.png)

- Support More Applications

- Better ROI (return on investment)

![ROI Chart](roi_chart.png)
PL3.9 + PL4.8
Get Closer to The Action
Flexible and efficient used for high resolution outdoor display applications that
demand high contrast and color correct.

Made For Mobile
- Rear serviceable with universal modules
- Quickly replace power and data core without tools
- Easy to install and dismantle

Need More Curves
In addition to the integrated curves…
Curving brackets are available:
PL4.8 XL + PL6.9 XL

Lighten Up and Go Large

Super lightweight and portable, designed for the most demanding of events

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 Safety And Pixel Protection
— 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.
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 convex to +45 concave giving users unlimited design flexibility and control.

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

Fast rear service

Pull the Handle
Push-then-Pull Modules
Pull the Module from Rear
Additional benefits

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
**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.

**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