Parameters

Parameters	PL1.9 Pro V10		PL2.5 Pro V10			PL2.5 Pro V10-Cube
Control system	Brompton	NovaStar	Brompton	Brompton	NovaStar	NovaStar
LED type	IMD		Black SMD1515			
Pixel pitch (mm)	1.953	1.953	2.5	2.5	2.5	2.5
Panel dimensions (WxHxD, mm)	500x500x88					
Panel resolution	256x256		200x200			
Panel weight (kg)	9		8.8		8.6	8.3
Panel material	Die casting aluminum					
Module size (WxH, mm)	250x250					
Brightness (nit)	1500	1500	1500	1500	1500	1500
Refresh rate (Hz)	7680	7680	7680	3840	3840	3840
Grayscale (bit)	16	16	16	16	16	16
Contrast ratio	7000:1	7000:1	8800:1	8800:1	8800:1	8800:1
Color temperature (K)	6500					
Viewing angle (H/V, °)	140/140	140/140	160/140	160/140	160/140	160/140
Drive mode	1/16	1/16	1/8	1/20	1/20	1/20
AC operating voltage(V)	100～240					
Power consumption (max./avg., W/m²)	720/240	720/240	680/230	680/230	680/230	680/230
Storage temperature (°C)	-40～+60					
Operating temperature (°C)	-10～+40					
Storage humidity (RH)	10%～90%					
Operating humidity (RH)	10%～90%					
IP rating (Front/rear)	IP40/IP21					
Certification	FCC, ETL, CE, RoHS					

POLARIS PRO

Assemble Your Task Force

NXTGEN
Embrace The Future

About Absen

Absen is the world's leading manufacturer of LED displays, covering both indoor and outdoor applications for rental and fixed installations.Established in 2001 and headquartered in Shenzhen, China, Absen has successfully delivered 50,000 projects in over 130 countries and regions.

Through constant innovation and development, Absen has been the top Chinese exporter of LED displays, making it the brand of choice for many of the most prominent rental staging companies worldwide.

From live concerts and festivals to corporate conferences and events, we offer a comprehensive and award-winning LED product portfolio to help you create stunning visual experiences.

Absen Russia

Absen GmbH

Absen Dubai

Absen Shenzhen HQ

Absen Japan

Absen HK

Absen US

Absen Mexico

Absen Brazil

Polaris Pro Series

Auto-lock

7680Hz

16Bit

Creative modules

Memory module

HDR10

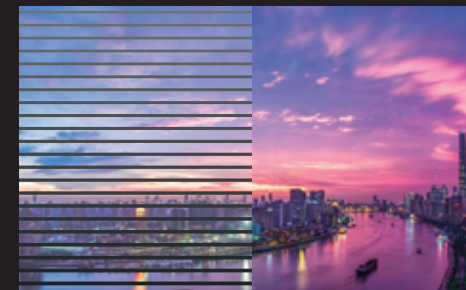1500nit

front and rear maintenance

Auto-eject system

Enhanced Color, High Refresh & Brightness

- Support the latest HDR10 standard & 16bit grayscale, enabling PL2.5 Pro V10 and PL1.9 Pro V10 to deliver a higher dynamic range with pure whites, deeper blacks and a wider color gamut.

- PL2.5 Pro V10 's brightness can reach up to 1500nit after calibration, able to maintain excellent display performance in brighter environment.
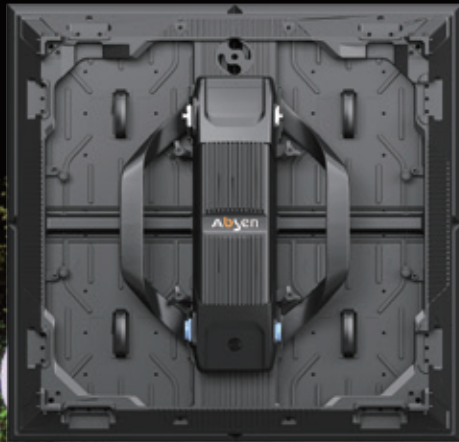
HDR10   16Bit   1500nit

- Polaris series supports 7680Hz refresh rate, promising outstanding on-camera visual effect, which significantly improves customers' satisfaction and encourages them to share about live events.

7680Hz

1

For the Best Image Quality

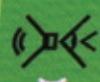Film Studio Solution Provided by Absen for TransQuebec.inc.

2 Extremely Creative

PL2.5 Pro V10 is available in a cube version to help customers build a more creative stage. This version can be used to connect regular PL Pro V10 panels.
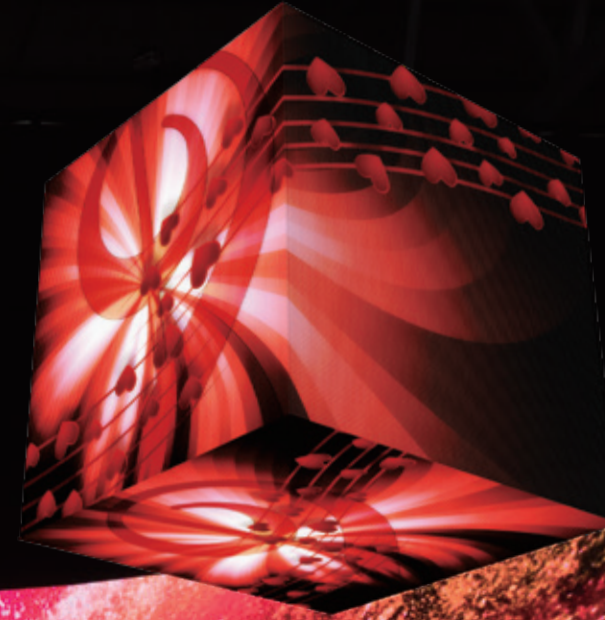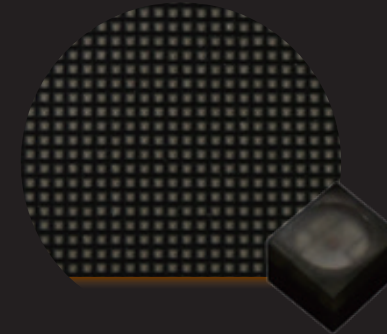
3 Take It Black and Do It Right

The optimal way to configure high performance rental displays – perfectly
balanced for extreme contrast and high pixel protection
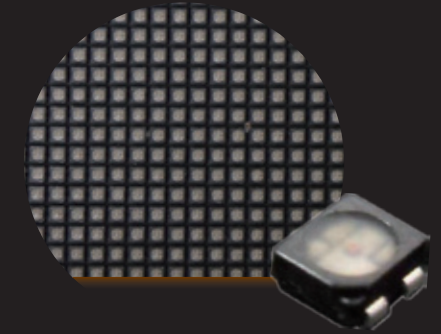
▣ UltraBlack Technology

Small sized non-reflection LEDs, combined with matte and super black mask, the PL2.5 Pro V10 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.
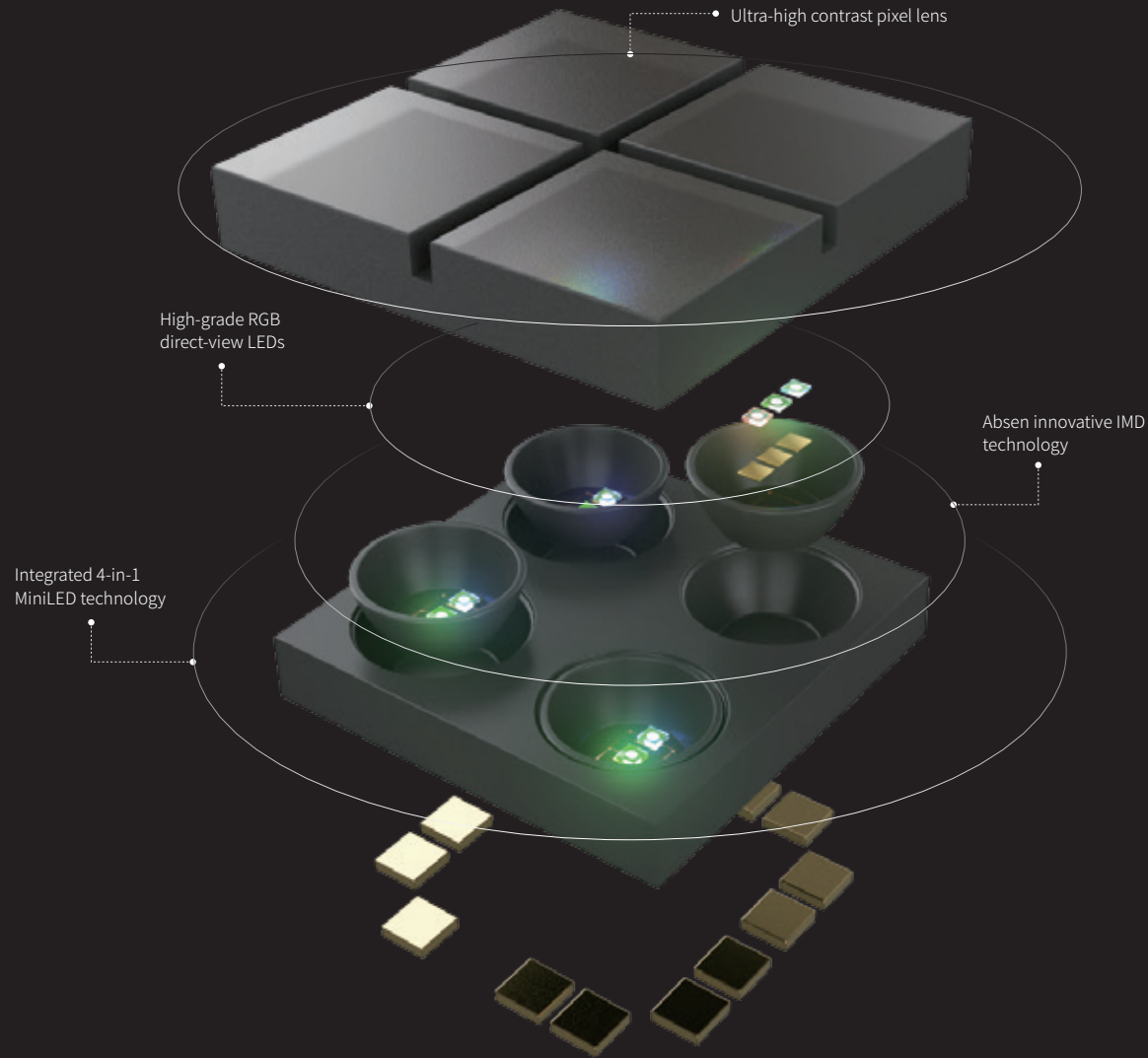

PL 2.5 Pro V10 SMD 1515

8800 : 1

P2.6 SMD 2121

Absen Innovative IMD Technology

Ultra-high contrast pixel lens

High-grade RGB direct-view LEDs

Absen innovative IMD technology

Integrated 4-in-1 MiniLED technology

PL1.9 Pro V10

Superior definition

45% more pixels

45% higher pixel density compared to other 2.3mm rental products to deliver laser-sharp, lifelike images.

Stunning visual performance

30% Contrast boost

Absen Innovative IMD enables stunning pure colour reproduction along with deep blacks and peak whites.

Maximum strength

x3.3 stronger

Absen Innovative 4-in-1 pixel configuration provides over triple the strength of traditional LED rental screens with the same pixel pitch.

Advanced
Auto-Lock and Auto-Eject Systems

Auto-locking vertical lock system with magnetic auto-connection for fast and easy one 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

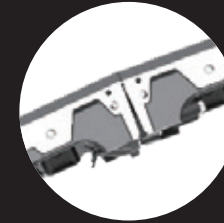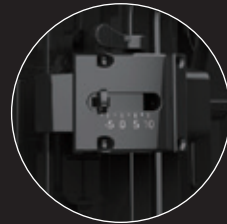**3** ≫   Pull the knob of top lock system to lock the Panels.

Advanced
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.

Support from -7.5 convex to +10 concave

Fast rear service

Front & Rear serviceable with universal modules

Quickly replace power and data core without tools
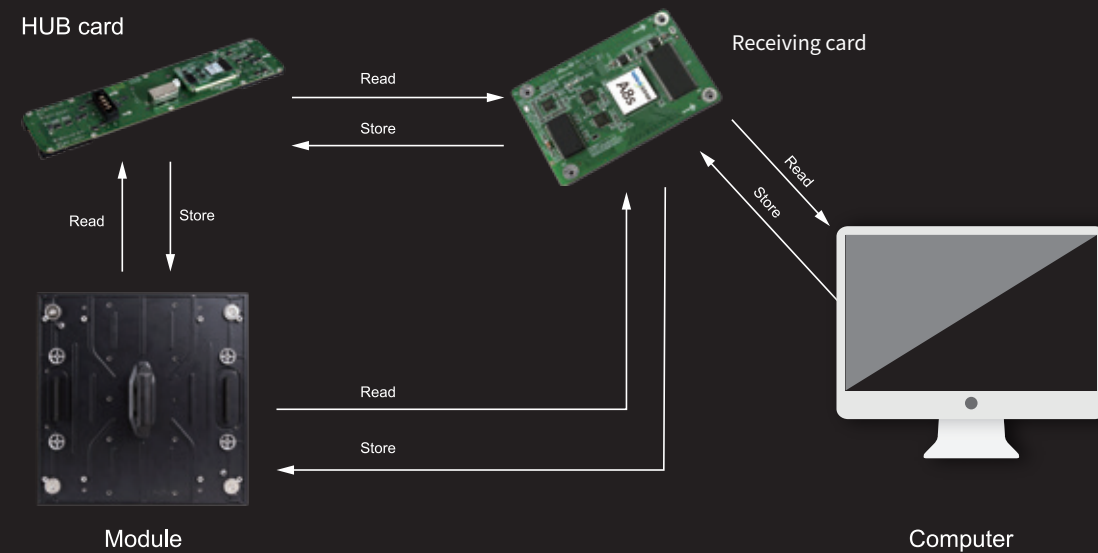
Additional Benefits

① Memory on Module/Hub

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

HUB card

Receiving card
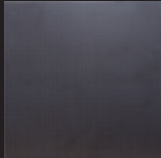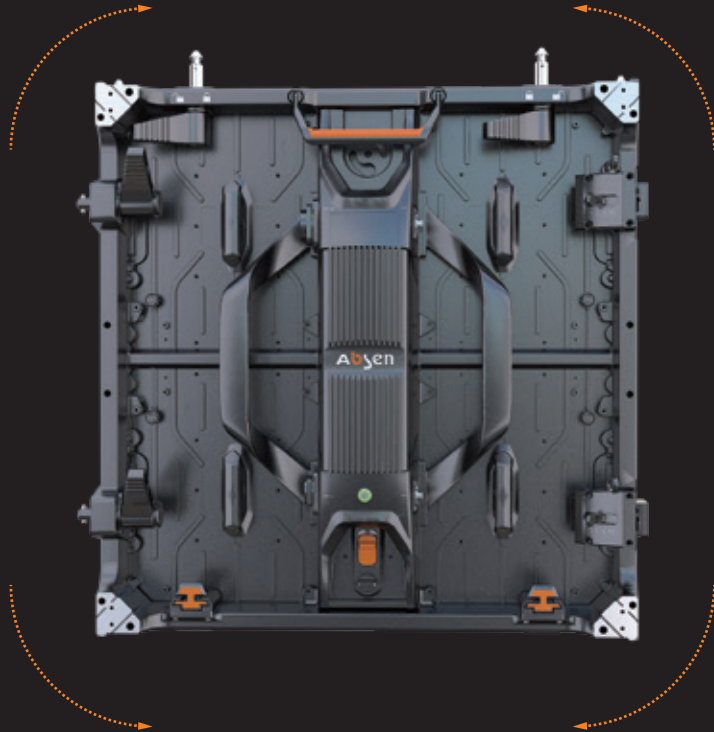
Read

Store

Read

Store

Read

Store

Read

Read

Store

Module

Computer

② Processing

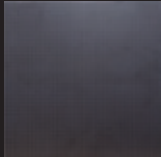Premium image quality, 4K processing

Absen Process

4K image

③ Advanced
Platform Design

Different pixel modules can be used on one frame.
Save customer money on product, accessories and training.

P2.5

P1.9

④ Advanced
Stacking System

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