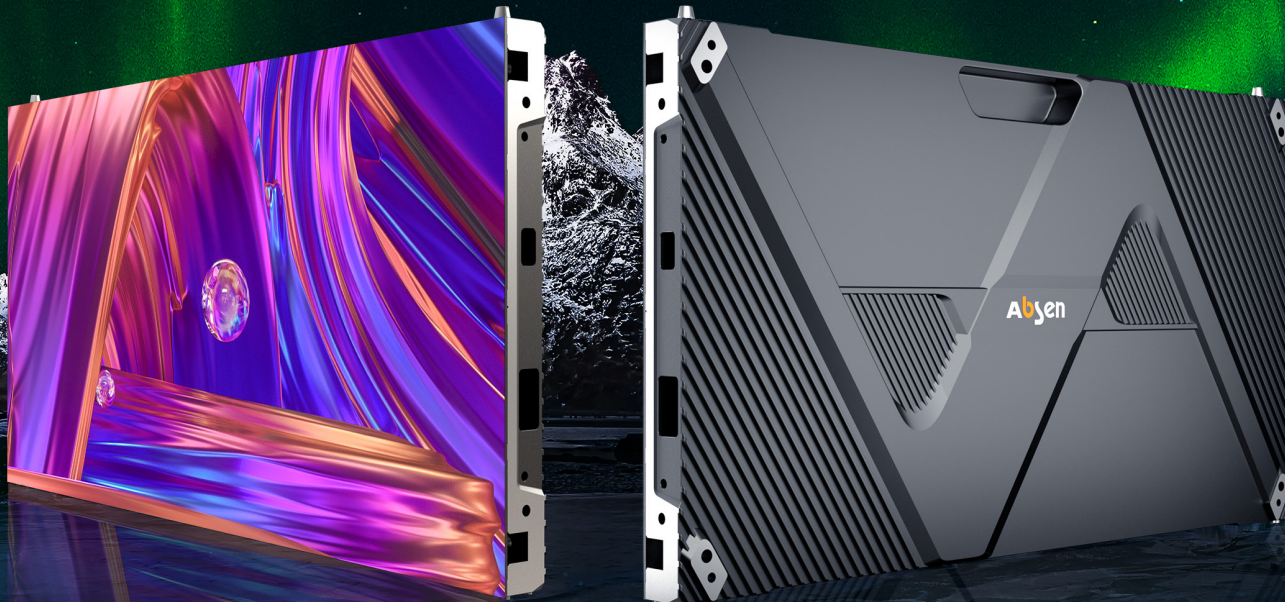




Abgen
Trusted LED Supplier

KLCOB₂



Black

Extraordinary deep blacks

Brilliant

Capture every brilliance

Cool

Stay cool, enjoy more

Strong

Against external impact

Flip Chip Technology

↑↑X4

Contrast boost

↑↑X3

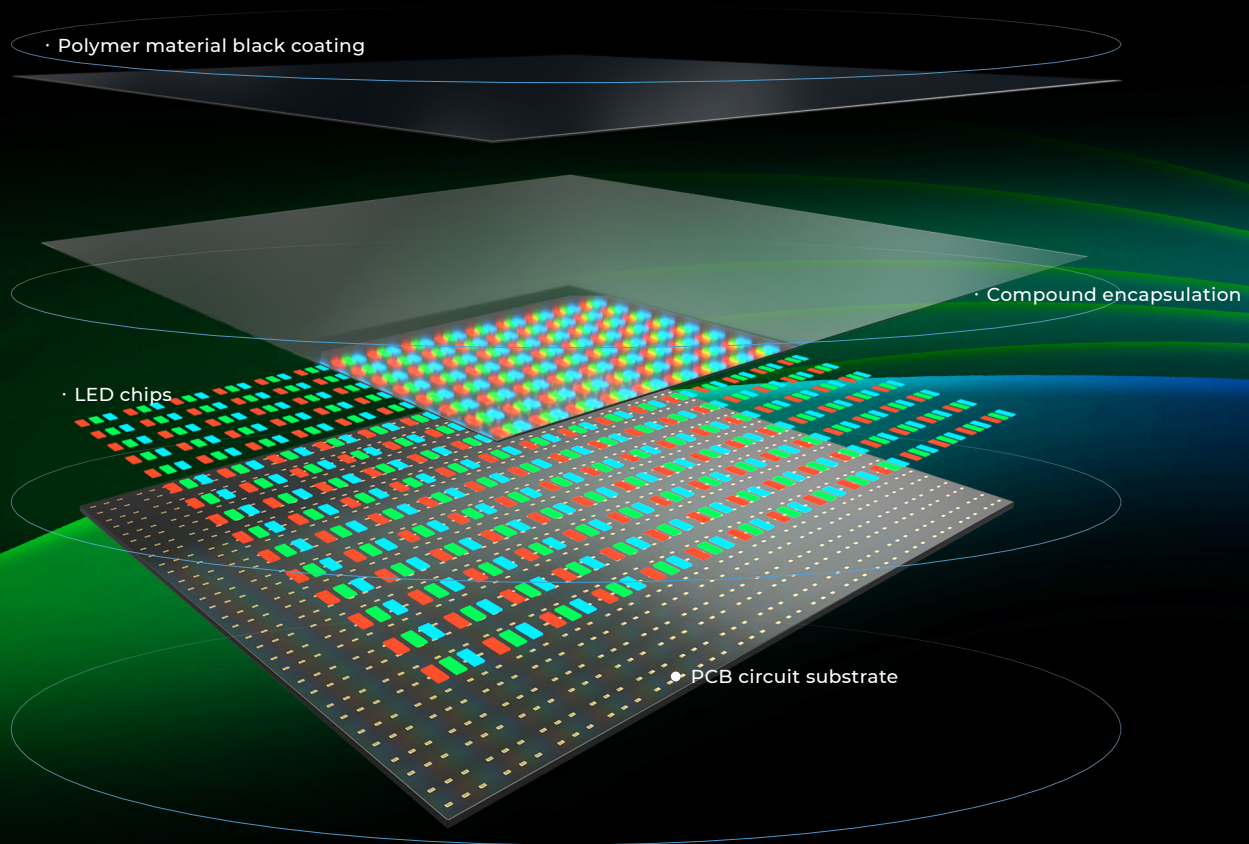
Surface stronger

↓↓50%

Lower failure rate

↓↓40%

More energy efficient



Extraordinary Deep Blacks

Enhanced with a unique black polymer coating, the KLCOB V2 Series from Absen presents a uniformly deep black for an immersive visual depth. The superior black level enhancement not only intensifies color contrast but also refines the overall viewing experience to extraordinary levels.



intense black immersion



better flatness



perfect black consistency

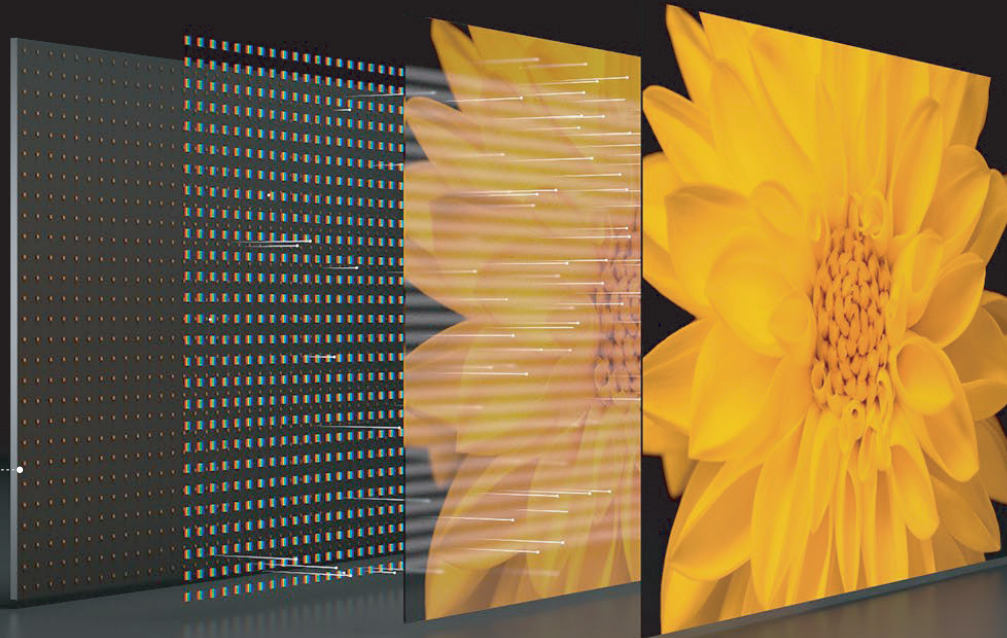
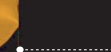


non glaring, no reflection

Flip chip technology



black coating technology



Capture Every Brilliance

Absen's KLCOB V2 series harnesses a suite of advanced image optimization technologies, sharpening visual clarity and enhancing color vibrancy to render lifelike details and stunningly rich images.

Initial display



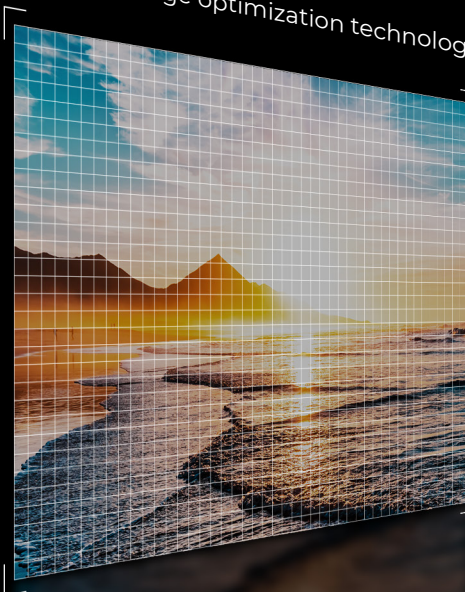
HDR

High dynamic range

600~1000nits*

Max. brightness

N+ items image optimization technology



15000:1

Stunning contrast

1.07

Billion colors

DCI-P3

Cinema-level color gamut

22bit

Smooth grayscale transitions

Final imaging



2FPS

Low latency

3840Hz

Perfect in-camera performance

* supports 600nits, 800nits, and 1000nits, the product with different brightness have differing configurations

Perfect in-Camera Performance

Absen's KLCOB V2 utilizes advanced surface light source technology to minimize moiré effects and deliver superior on-camera visuals, making it an ideal choice for environments such as television studios and academic venues.



Clear moiré

Less moiré

Stay Cool, Enjoy More

Leveraging advanced flip chip and HBB common cathode technologies, the KLCOB V2 remains cool under pressure, providing a seamless and vibrant visual experience effortlessly.



↓10°C +

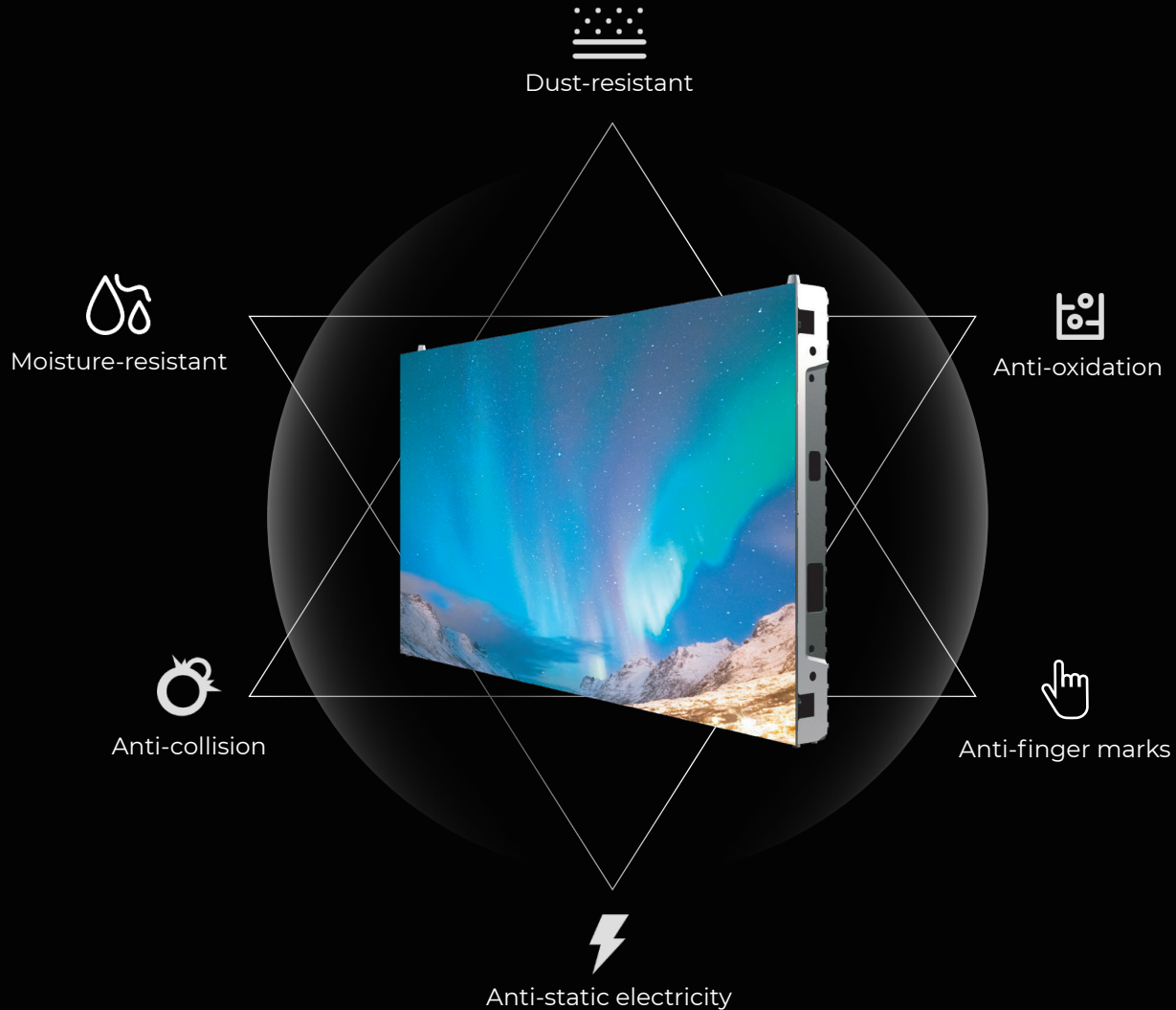
Temperature is more than 10 °C
lower than conventional LED



* HBB common cathode technology is optional

Strong Against External Impact

Absen's KLCOB V2 leverages advanced flip chip technology to deliver comprehensive, 360° all-around protection against external impacts, ensuring robust defense from every angle.



Easy on the eye

Leveraging flip chip technology, the KLCOB V2 series offers a refined visual experience with reduced pixelation and homogenized light output, ensuring comfortable viewing over extended periods.



Easy to Clean & Maintain

The waterproof rating of the module is IPX4, allowing for hassle-free cleaning with just a damp cloth, streamlining maintenance while reducing costs.



More Quality, Less Consumption

Harnessing the synergy of four advanced technologies, the KLCOB V2 series embodies efficiency, slashing energy consumption by 40% without compromising performance—truly exemplifying the 'Absen Green' ethos.



HBB Drive Design
Precise power supply

Dynamic Energy Management
Dynamically adjust output current

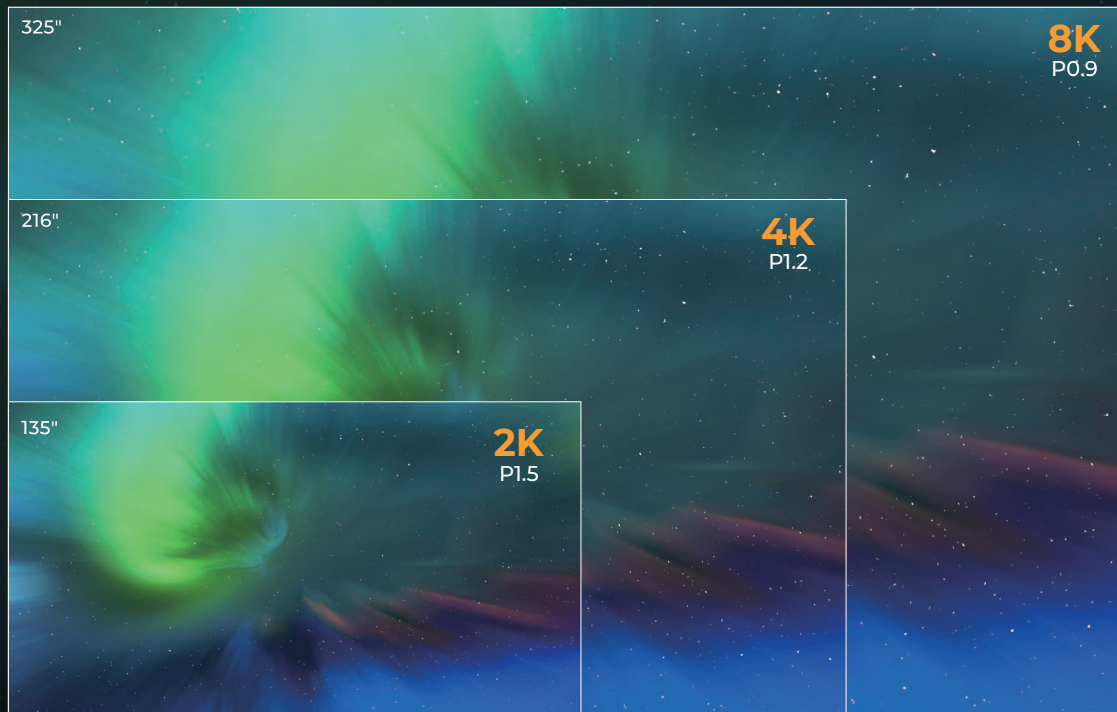
Flip Chip Technology
Energy saving $\geq 40\%$

PFC Power Supply
High power utilization

As the earth deserves
Absen
Green

Small Pixel Pitch - Infinite Display

The KLCOB V2 series features a cabinet with a versatile 16:9 aspect ratio, seamlessly integrating into displays of 2K to 8K and beyond, for a truly expansive and engaging visual experience.



Ultra High Definition

Micron-scale self-luminous LED
Ultra High density display pixels



16: 9 Aspect Ratio

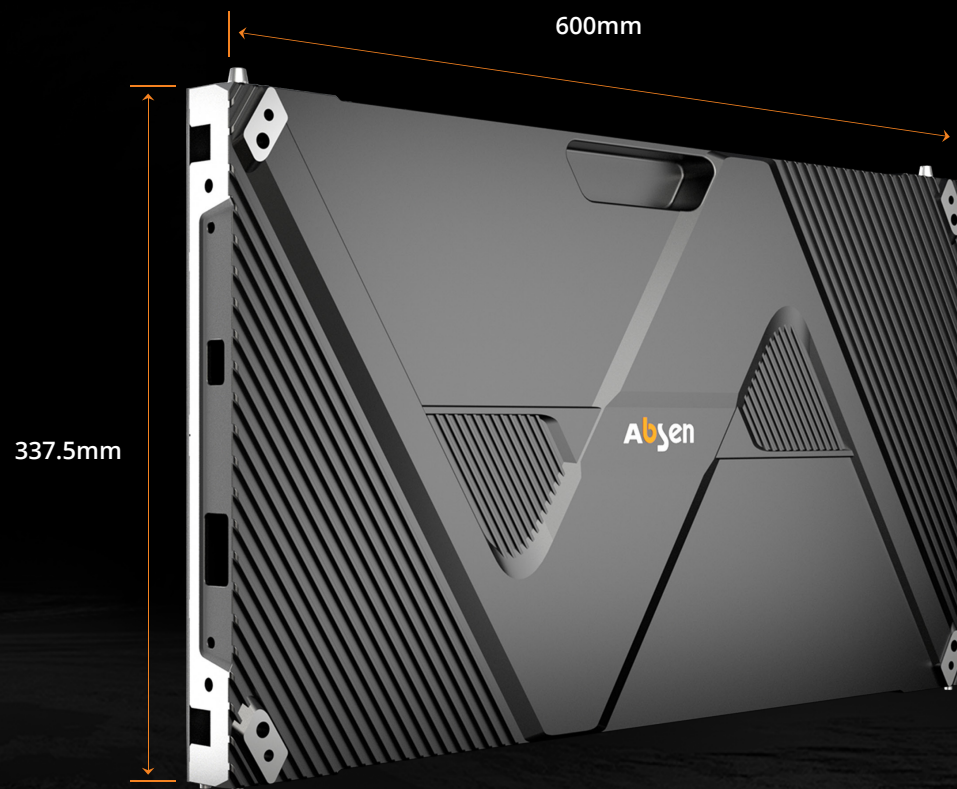
Pixel to pixel resolution
Match mainstream video aspect ratio



8K Breathtaking Size

4K/8K screen splicing
Creating an immersive sensory experience

Lightweight Design



4.5kg
Max. Weight



39.3mm
Thickness

High Reliability

Equipped with dual backup for both power and signal, the KLCOB features a redundant power input system, guaranteeing a consistent and reliable display performance without any signal interruption.



power 1



power 2



*Two power source inputs is optional

Smooth Data Transmission

Leveraging a single-channel signal transmission with a bandwidth of 5Gbps, the KLCOB V2 effortlessly accommodates ultra-clear 8K and higher resolution display solutions.

conventional P0.7 display	VS	KLCOB0.7 V2 display
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Network cable no.

100pcs		16pcs
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Splicing an 8K screen with KLCOB0.7 V2 product requires only 1/6 of the number of network cables required by a conventional P0.7 display, with neater screen alignment and lower failure rate

16pcs		1pcs
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Traditional P0.7 products require 16 control boxes to splice an 8K screen, while KLCOB0.7 V2 only requires one main control system

* Optional configuration

EMC Class B Standard

KLCOB V2 series meets the EMC Class B standard, safe choice for residential, commercial, and light industrial environment , preventing harm to the human body caused by excessive electromagnetic radiation.



Increased
radiation
emissions

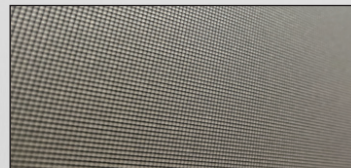
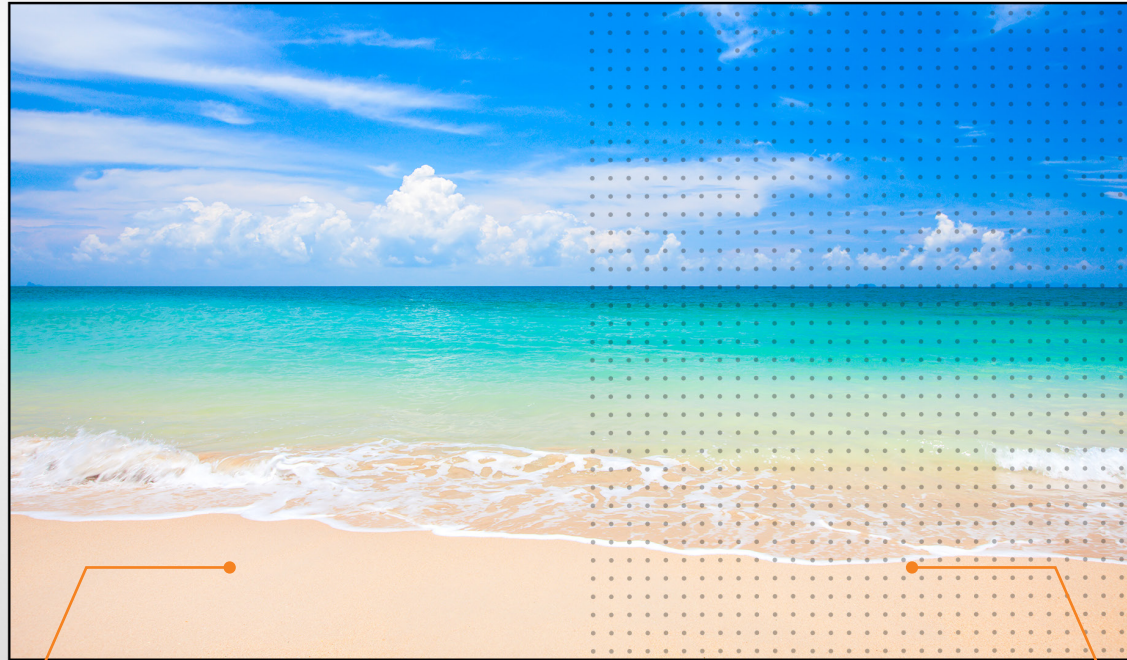


	United States	Europe
CLASS A	 Non-residential areas	 Industrial areas
CLASS B	 Residential areas	 Residential Commercial Light industrial

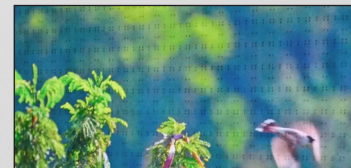
* EMC Class B Standard is optional

Magnetic Shielding, Dust-Free Design

The KLCOB V2 employs a magnetic shielding design that reduces surface magnetism by 70%, preventing dust buildup and maintaining a clean surface for long-term use.



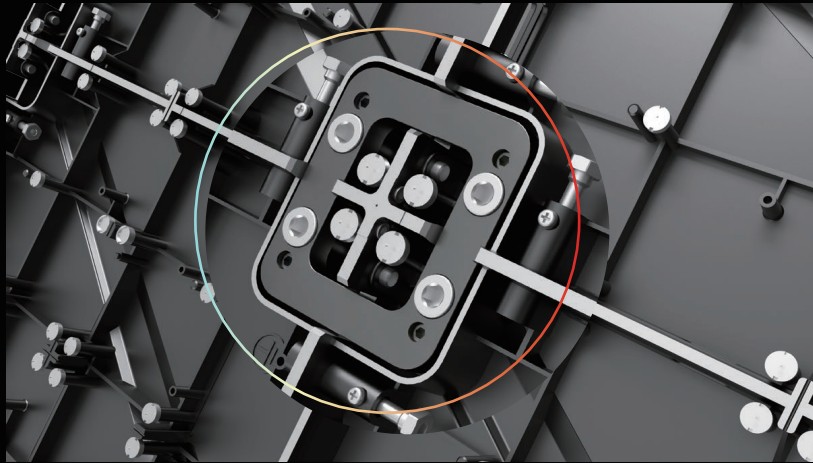
Magnetic Shielding Design
(Keeping the screen clean)



Conventional Magnetic
(Screen shows black spots)

Excellent Flatness and Front Maintenance

Absen's KLCOB V2 boasts a sleek inter-panel connector that ensures precise flatness and swift assembly. Coupled with a front-accessible maintenance design and the elimination of a rear casing, this innovation streamlines both installation and upkeep, simplifying the process to its core.



 Inter-panel connectors



 Front maintenance

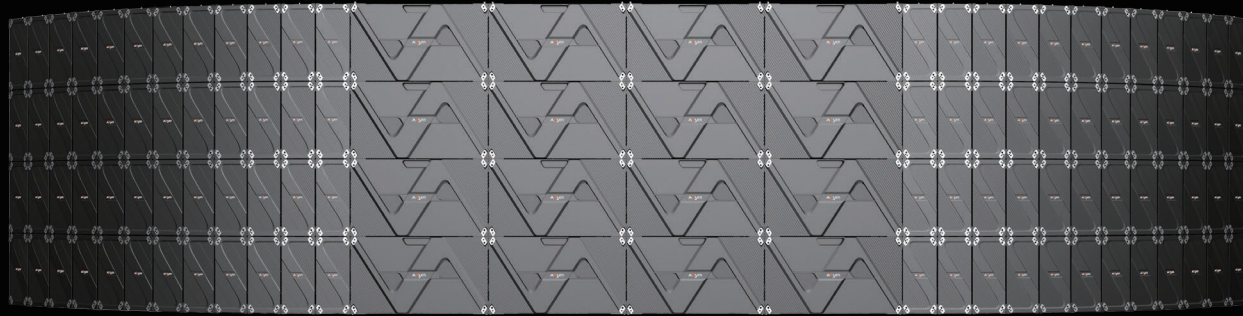
Dynamic & Concave for Optimal Visual Display

Using 150×337.5mm small panel for splicing, each supports a maximum internal arc of 3°, with a minimum radius of only 2.87m, creating an immersive visual experience.



Flexible Splicing for Customization

Supports splicing with standard panels for unlimited size, provides limitless design possibilities.



Quick and Easy Assembly

The KLCOB V2 offers versatile installation options including stacking, wall-mounting, hanging, and precise 90° splicing, catering to a wide array of environmental requirements with ease.



● Stacking



● Wall-mounting



● Hanging



● 90° splicing

Control Room



Conference Room



 Lobby



STERLING
STUDIO

OUR FAST PACED



Service Advantages



Long warranty, worry free after-sales service

100% certified engineers provide professional, thoughtful, and fast services

- Enjoy a **2**-year warranty service and offer **1-3** years of extended warranty service
- Supports lifetime warranty - Lifetime Warranty (designated area)



Super high efficiency, save time

Short repair cycle, **30%** ahead of the market

- Domestic repair cycle is **10** days, international repair cycle is **45** days
- Support replacement instead of repair(designated areas)



Worry-free and trouble-free installation

The manufacturer's senior service team follows up throughout the process to ensure the best display effect.

- After placing the order, you can enjoy **one-to-one** installation guidance

Optional Services

- Extended warranty service: Extend the warranty period of the LED screen beyond the basic warranty period
- Replacement instead of repair: When a fault occurs, spare parts are replaced first to minimize equipment downtime and quickly resume operation
- Package installation service: The manufacturer provides high-quality LED screen installation and configuration to ensure the installation effect

Absen Service Ability



Global service coverage

- Global 9 primary service centers and 30+secondary service centers
- 700+service partners
- 3000+certified ACE service engineers



Multiple service channels

Providing service via multiple channels such as Hot line, WeChat, WhatsApp, E-mail and official website to quickly take care of service requirements



24 / 7 response

24/7/365 available, quick response in 10 seconds



One-stop service

Enjoy exclusive and professional service in the whole process of pre-sales, sales and after-sales



Service channels

Hot line: +86 400-700-3278

WeChat: 13923413428 WhatsApp: 008613923413428

E-mail: service@absen.com Official website: www.absen.com

Model	KLCOB0.7 V2	KLCOB0.9 V2	KLCOB1.2 V2	KLCOB1.5 V2
LED Type	Flip-chip RGB	Flip-chip RGB	Flip-chip RGB	Flip-chip RGB
Pixel Pitch (mm)	0.78	0.93	1.25	1.56
Panel Dimensions (WxHxD)/(mm)	600×337.5×39.3	600×337.5×39.3	600×337.5×39.3	600×337.5×39.3
Pixel Per Panel	768x432	640×360	480 × 270	384×216
Panel Material	Die Casting Aluminum			
Brightness (nit)	600~1000	600~1000	600~1000	600~800
Refresh Rate (Hz)	3840	3840	3840	3840
Gray scale (bit)	20 (Internal processing)	19 (Internal processing)	19 (Internal processing)	19 (Internal processing)
Contrast Ratio	15000:1	15000:1	15000:1	15000:1
Viewing Angle (H/V) (°)	160/160	160/160	160/160	160/160
Operating Temperature (°C)	-10~ + 40	-10~ + 40	-10~ + 40	-10~ + 40
Operating Humidity (RH)	10 % ~80 %	10 % ~80 %	10 % ~80 %	10 % ~80 %
IP Rating (Front/Rear)	IP40/IP21	IP40/IP21	IP40/IP21	IP40/IP21

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