![Absen - Trusted LED Supplier]

KLSeries**II**

KL Series II

1.2mm | 1.5mm | 1.8mm | 2.5mm

16:9
Golden ratio

Fine Adjustment
Grayscale improvement technology

HFR+
High frame rate mode

Color Precision
Color management technology

800nits
Maximum brightness

3840Hz
High refresh rate

X/Y/Z axis
Six-direction alignment

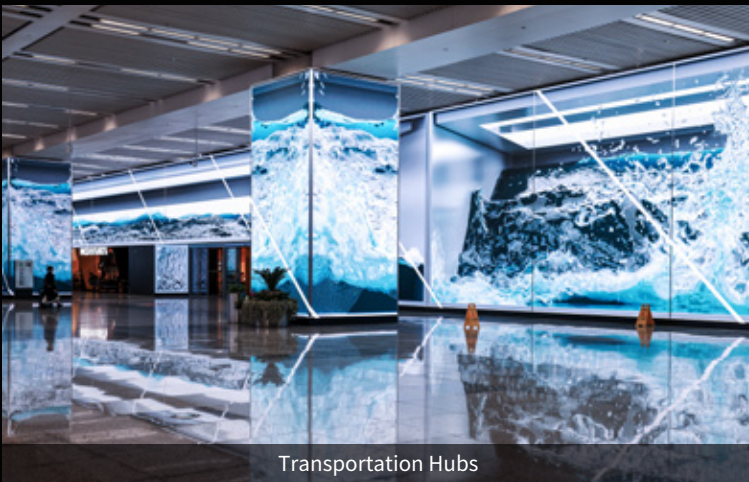**Floating connectors**
Fast installation and maintenance
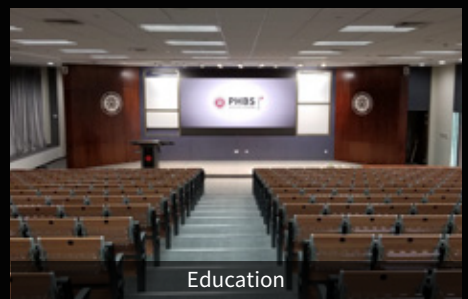
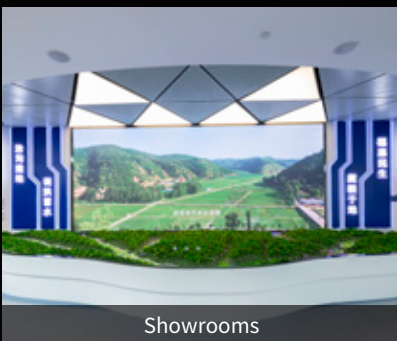# For all commercial display applications

Control rooms

Retail, shopping malls
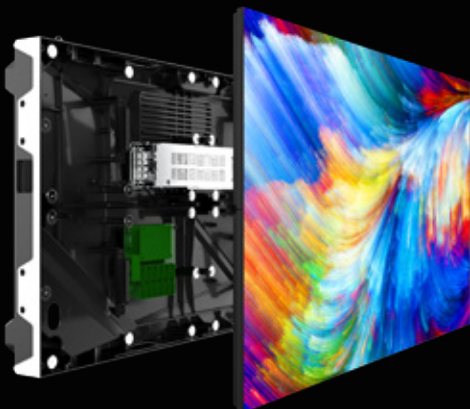

Transportation Hubs

Education

Showrooms

Enterprises

Conference Rooms

Ready-to-use panel with superior quality

Adopting the closed design, the panel contains high-quality PFC* power supply unit, receiving card and other components. Delivered in the form of ready-to-use panel, product quality is more guaranteed.

High-quality PFC power supply unit
Power factor cosØ ≥ 0.95, power efficiency ≥ 88%

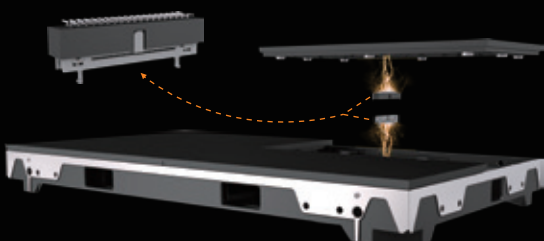**Fine die-casting aluminum cabinet**

High-performance receiving card

Magnets with strong attraction force

Innovative floating connectors with patent

Absen's new innovative floating connector* realizes cable-free connection between the module and panel, making installation and maintenance more convenient and efficient.

Invention patent & design patent*
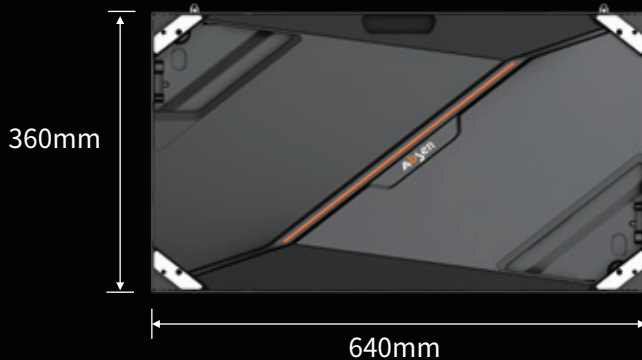
Good location fault tolerance

Anti-torsion, anti-collision, anti-vibration

*PFC means power factor correction, which is a technology to improve the power factor of electrical equipment to improve power utilization.

*Absen has applied for relevant invention and design patents

Golden ratio brings better visual comfort

Based on ergonomic research, the panel adopts the golden ratio of 16:9 to enhance viewing comfort. It is also more suitable for playing mainstream videos.
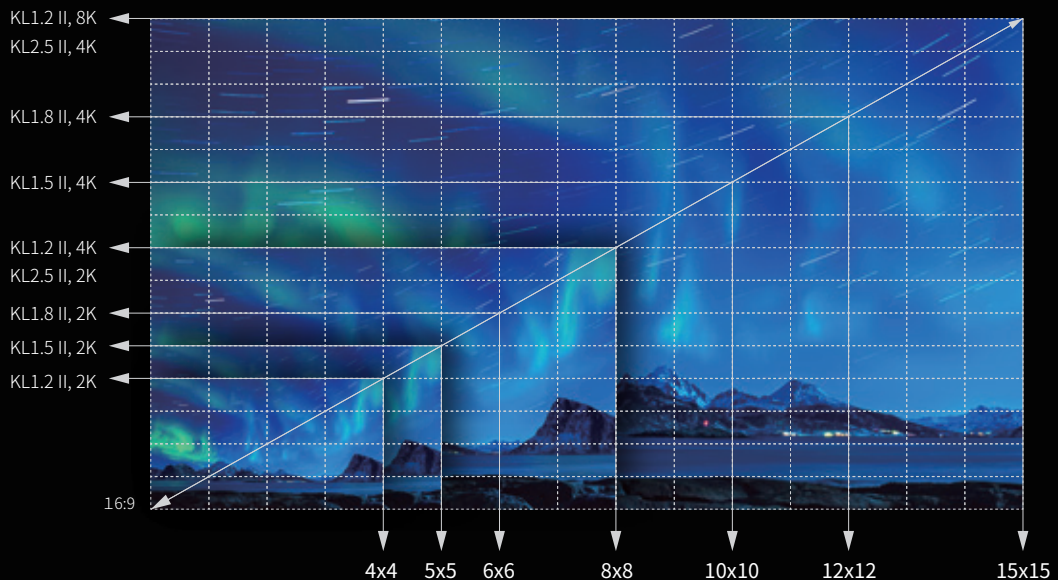

360mm

640mm

16:9

Panel size

The optimal aspect ratio for viewing
Mainstream video aspect ratio

Easily enjoy 8K vision display

n^2 panels can be spliced into a 16:9 screen to quickly achieve a 2K, 4K or even 8K display, making it especially suitable for use in places such as studios, command centers and conference rooms.

KL1.2 II, 8K
KL2.5 II, 4K

KL1.8 II, 4K

KL1.5 II, 4K

KL1.2 II, 4K
KL2.5 II, 2K

KL1.8 II, 2K

KL1.5 II, 2K

KL1.2 II, 2K

16:9

4x4   5x5   6x6   8x8   10x10   12x12   15x15

Fine Adjustment
grayscale improvement technology

The grayscale performance is increased by four times, making the grayscale changes more naturally. Even under low brightness, it can perfectly display details even in the dark parts of the picture.

Fine grayscale, details visible in dark parts

Low grayscale, details lost in dark parts

Color Precision
management technology

Intelligent adjustment is made through Color Precision management technology
to match the color gamut range of the display with the source image.
Highly reproduce natural scenes and achieve high-fidelity colors.

Original image

No color management, with color deviation **With color management, no color deviation**

HFR+ mode for capturing the best moments

Support HFR+ mode (120Hz high frame rate)*, smoothly display high-speed,
quick-changing content and enhance visual fluency,
making it especially suitable for playing high-speed motion pictures and 3D pictures.

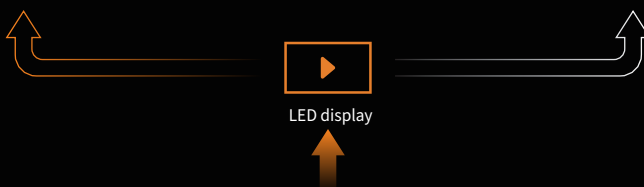60Hz

120Hz

*Only KL1.5 II, KL1.8 II and KL2.5 II support HFR+ mode

Ultra-low latency enables real-time image display

Reduces delays in transmission of video sources, synchronizes the
display of real-time images and helps achieve live broadcasting with ease.

10:44

10:43

Sync to KL II series
Low latency

Sync to other displays
Significant latency

▶

LED display

Live broadcast of transmitted computer images

Record exciting moments as you like

The brightness can reach up to 800nits, which greatly reduces the influence of ambient light on the display effect. Using PWM LED driver IC, the refresh rate is as high as 3840Hz, and there is no scan line when taking pictures.
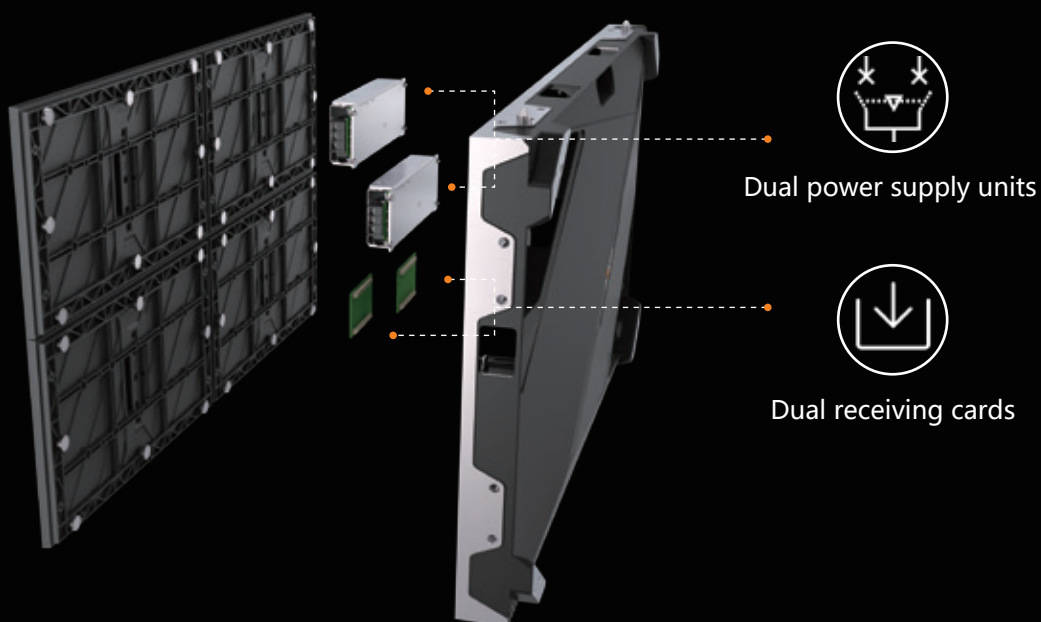

Photo taken without scan lines

Photo taken with scan lines

Always keep the signal uninterrupted

Supports dual receiving cards and dual power supply units to ensure uninterrupted power supply and signal, so as to realize continuous transmission of information. This function is especially suitable for use in places such as control rooms and studios.
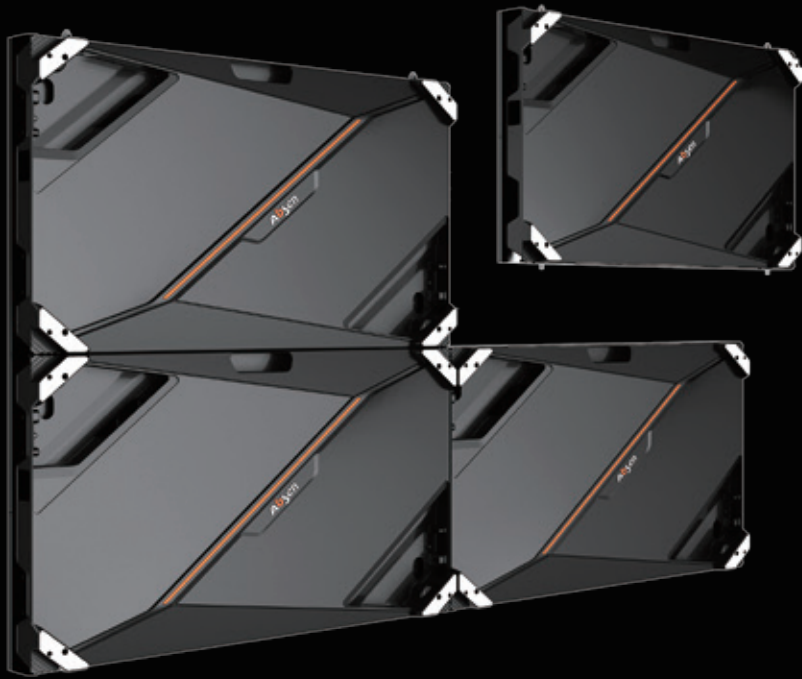

Dual power supply units

Dual receiving cards

Control room

Studio

Multiple installation methods

The KL II Series supports hanging, wall mounting and stacking installation, etc.
Hidden wiring design is adopted to make the installation more tidy.
It supports six-direction alignment to improve flatness of the screen.

Stacking
installation

Wall-mounting
installation

Hanging
installation

L-shaped
splicing*

Hidden wiring
design

Anti-collision
design

Quick
plug-in/out

X/Y/Z axis
alignment

*Only for customized version

Standard elegant accessories

Provide standard hanging bar and backing strip accessories to make installation easier.
Provide ultra-thin trim pieces solution to enhance aesthetic feeling in all directions.

• 640mm/1280mm hanging bar

• 2-in-1/ 3-in-1 backing strip

• Ultra-thin trim pieces

Easy and convenient front maintenance

Support front maintenance of module, receiving card and power supply unit.
No need to build a dedicated maintenance channel, thereby saving installation space.

Module   Receiving card   PSU   Dedicated front maintenance tool

Standardized quality control

It is manufactured in Absen's own factory through a standardized production process, and has obtained multiple certifications, allowing customers to use it without any worries.

Standardized manufacturing process

Every step of the production process is strictly managed to ensure product quality

Strict quality control

18 monitoring procedures
29 operating procedures
33 recording procedures
2,285 inspections and tests

Multiple certifications obtained, legal and compliant

Certified through CE, ETL, FCC, CCC, China Energy Conservation Certification, etc.
Passed performance/ blue light hazard/ photobiology test, etc.,
which are recognized by CNAS accredited institution

Professional service, best experience

Absen has built up a global network , able to provide prompt and professional local services.

Absen service ability

Comprehensive support

Enjoy 2-year warranty, support up to 3-year extended warranty, lifetime maintenance, and enjoy 10+ items of professional service solutions to help you solve problems

Global coverage

400+ Absen certified partners, 2,400+ Absen certified engineers, covering most of the global market, the global service network is continuing to expand vigorously

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
Email: service@absen.com
Official website: www.absen.com

Service time （GMT+8）

8:30~24:00：Staff service
00:00~8:30：Intelligent system service

Absen service philosophy

Initiative | Proactive care and return visits, regular touring inspection services for customers

Efficiency | Absen customer service center responds within 10 seconds, intelligently match the best local service resources, and enjoy a fast service experience

Standardization | Comprehensive service engineer training system, ACE professional training and certification, ACP professional certification; establishing customer's product files and record the entire service process

Thoughtfulness | Longer warranty, worry-free quality

Ready-to-Use LED

· Superior Quality / Worry-Free / Safe & Secure

Superior Quality

Excellent product design
Reliable raw material
Standard manufacturing process
Quality control throughout the whole manufacturing process
Extraordinary visual effect

VS

Inferior Quality

Crude product design
Poor raw material
Non-standard manufacturing process
No strict quality control
Terrible visual effect

On-Site Assembly LED

· Inferior Quality/ Troublesome/ Hidden Dangers

Worry-Free

Ready-to-use panel
Quick installation
One-stop standard solution
Global service and long term warranty

Safe & Secure

Safe and trustworthy
Certification
Professional installation & maintenance services

Troublesome

On-site assembly
Complicated installation
Non-standard solution
Unreliable after-sales service

Hidden Dangers

Great security risks
No certification
Non-standard installation & maintenance services

Parameters

		KL1.2 II	KL1.5 II	KL1.8 II	KL2.5 II
Physical parameters	LED type	Black SMD1010	Black SMD1212	Black SMD1515	Black SMD1515
	Pixel pitch (mm)	1.25	1.53	1.86	2.5
	Panel dimensions (W*H*D, mm)	640×360×65	640×360×65	640×360×65	640×360×65
	Panel resolution	512×288	416×234	344×192	256×144
	Panel weight (kg)	6	6	6	6
	Panel material	Die casting aluminum			
	Module size (W*H, mm)	320×180	320×180	320×180	320×180
Photoelectric parameters	Brightness (nit)	800	800	800	600
	Refresh rate (Hz)	≥3840	≥3840	≥3840	≥3840
	Grayscale (bit)	14	14	14	14
	Contrast ratio	4000:1	4000:1	4000:1	3000:1
	Color temperature (K)	2500-9500			
	Viewing angle (H/V, °)	140/120	160/140	160/140	160/140
	Drive mode	1/32	1/52	1/43	1/32
	AC operating voltage (V)	100~240	100~240	100~240	100~240
	Power consumption (max./avg., W/m²)	615/205	560/187	520/173	410/137
Application parameters	Storage temperature (°C)	− 40~ + 60			
	Operating temperature (°C)	− 10~ + 40			
	Storage humidity (RH)	10％~85％			
	Operating humidity (RH)	10％~80％			
	IP rating (front/ rear)	IP40/IP21			
	LED lifetime (h)	100000			
	Panel maintenance type	Fully front			
	Panel installation type	Stacking/ wall-mounting/ hanging			

*Note: It is normal for the power consumption to fluctuate within ±15% due to the influence of the brightness of different batches of lamps. Please refer to the actual situation.