16:9  Golden ratio

HFR+  High frame rate mode

800nits  Maximum brightness

X/Y/Z axis  Six-direction alignment

Fine Adjustment  Grayscale improvement technology

Color Precision  Color management technology

3840Hz  High refresh rate

Floating connectors  Fast installation and maintenance
For all commercial display applications

- Control rooms
- Transportation Hubs
- Showrooms
- Enterprises
- Conference Rooms
- Retail, shopping malls
- Education
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 $\cos \theta \geq 0.95$; power efficiency $\geq 88\%$
- **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.

Easily enjoy 8K vision display

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.
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.

*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.

Live broadcast of transmitted computer images
Record exciting moments as you like

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

Provides optional dual backup version 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-channel signal loop backup, greatly improves fault tolerance and reliability

(Single channel receives primary and secondary signal at the same time)

When the panel’s single PSU is not working, the power supply is still on
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.
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
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, 2,600+ 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

On-Site Assembly LED

- Inferior Quality / Troublesome / Hidden Dangers

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

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

### Physical parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>KL1.2 II</th>
<th>KL1.5 II</th>
<th>KL1.8 II</th>
<th>KL2.5 II</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED type</td>
<td>Black SMD1010</td>
<td>Black SMD1212</td>
<td>Black SMD1515</td>
<td>Black SMD1515</td>
</tr>
<tr>
<td>Pixel pitch (mm)</td>
<td>1.25</td>
<td>1.53</td>
<td>1.86</td>
<td>2.5</td>
</tr>
<tr>
<td>Panel dimensions (W<em>H</em>D, mm)</td>
<td>640×360×65</td>
<td>640×360×65</td>
<td>640×360×65</td>
<td>640×360×65</td>
</tr>
<tr>
<td>Panel resolution</td>
<td>512×288</td>
<td>416×234</td>
<td>344×192</td>
<td>256×144</td>
</tr>
<tr>
<td>Panel weight (kg)</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Panel material</td>
<td>Black SMD1212</td>
<td>Die casting aluminum</td>
<td>Die casting aluminum</td>
<td>Die casting aluminum</td>
</tr>
<tr>
<td>Module size (W*H, mm)</td>
<td>320×180</td>
<td>320×180</td>
<td>320×180</td>
<td>320×180</td>
</tr>
<tr>
<td>Brightness (nit)</td>
<td>800</td>
<td>800</td>
<td>800</td>
<td>600</td>
</tr>
<tr>
<td>Refresh rate (Hz)</td>
<td>≥3840</td>
<td>≥3840</td>
<td>≥3840</td>
<td>≥3840</td>
</tr>
<tr>
<td>Grayscale (bit)</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>4000:1</td>
<td>4000:1</td>
<td>4000:1</td>
<td>3000:1</td>
</tr>
<tr>
<td>Color temperature (K)</td>
<td>2500-9500</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viewing angle (H/V, °)</td>
<td>140/120</td>
<td>160/140</td>
<td>160/140</td>
<td>160/140</td>
</tr>
<tr>
<td>Drive mode</td>
<td>1/32</td>
<td>1/52</td>
<td>1/43</td>
<td>1/32</td>
</tr>
<tr>
<td>AC operating voltage (V)</td>
<td>100~240</td>
<td>100~240</td>
<td>100~240</td>
<td>100~240</td>
</tr>
<tr>
<td>Power consumption (max./avg., W/m²)</td>
<td>615/205</td>
<td>560/187</td>
<td>520/173</td>
<td>410/137</td>
</tr>
</tbody>
</table>

### Photoelectric parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>KL1.2 II</th>
<th>KL1.5 II</th>
<th>KL1.8 II</th>
<th>KL2.5 II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage temperature (°C)</td>
<td>– 40~ + 60</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature (°C)</td>
<td>– 10~ + 40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage humidity (RH)</td>
<td>10% ~ 85%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating humidity (RH)</td>
<td>10% ~ 80%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP rating (front/ rear)</td>
<td>IP40/IP21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LED lifetime (h)</td>
<td>100000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel maintenance type</td>
<td>Fully front</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel installation type</td>
<td>Stacking/ wall-mounting/ hanging</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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.*

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